

NCCT

PROMISE FOR THE BEST PROJECTS

FINAL YEAR PROJECTS

IEEE PROJECTS 2010 - 2011

EMBEDDED SYSTEM PROJECTS

*** MICROCONTROLLERS ***

*** VLSI * DSP * MATLAB ***

109, 2nd Floor, Bombay Flats, Nungambakkam
High Road

Nungambakkam, Chennai - 34

Near Ganpat Hotel, Above IOB, Next to
IDC

www.ncct.in, www.ieeeprojects.net

ncctchennai@gmail.com, projects@ncct.in

044-28735816 08111 03771 03801

NCCT
www.ncct
.in

EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,

FINAL YEAR
PROJECTS &
IEEE PROJECTS,
2010 - 2011

Why NCCT

Complete Guidance * On time
Completion * Excellent Support
Multi platform Training *
Flexibility

PROJECTS SUPPORTS & DELIVERABLES

- **Project Abstracts & IEEE Paper**
- **Project Block Diagram & Circuit Diagram**
- **Datasheets and Manuals**

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

NCCT

**www.ncct
.in**

**EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,**

- **PPT & Review Details Guidance**
- **Project Report Guidance**
- **Working Procedure & Screen Shots**
- **Materials & Reference Books in DVD**
- **Project Completion Certificate**

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

NCCT

**www.ncct
.in**

**EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,**

EMBEDDED SYSTEM PROJECTS

PROJECT AREAS

- **MICROCONTROLLER PROJECTS**
- **VLSI PROJECTS**
- **DSP PROJECTS**
- **MINIAB PROJECTS**
- **BIOMEDICAL PROJECTS**
- **POWER SYSTEM PROJECTS**
- **POWER ELECTRONICS PROJECTS**
- **ELECTRICAL PROJECTS**
- **TELE COMMUNICATION PROJECTS**
- **BIO METRICS PROJECTS**
- **DIGITAL SIGNAL CONTROLLER PROJECTS**
- **MOTORS, DRIVES & CONTROL PROJECTS**
- **COMMUNICATION PROJECTS**
- **INSTRUMENTATION PROJECTS**
- **MECHANICAL PROJECTS**
- **MEVS / MECHATRONICS PROJECTS**
- **THERMAL ENGINEERING PROJECTS**
- **AUTOMOBILE / AUTOMOTIVE PROJECTS**
- **CONTROL ENGINEERING PROJECTS**
- **APPLIED ELECTRONICS PROJECTS**

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

NCCT

www.ncct

.in

IEEE

EMBEDDED SYSTEM PROJECTS

IEEE 2010-11, 2009, 2008, etc.,

DOMAINS

**IEEE TRANSACTIONS
PROJECTS ON**

**Automatic Control / Biomedical
Engineering / Broadcasting /
Communications / Consumer
Electronics / Control Systems /
Energy Conversion / Fuzzy
Systems / Industrial Electronics /
Instrumentation and
Measurement / Intelligent
Transportation Systems / Power
Electronics / Power Systems /
Robotics / VLSI Systems / Wireless
Communications /**

**Domains including
Embedded
Microcontroller Kits,
Models**

**Any IEEE & NON IEEE Projects in
any Domain / any Application can
be Implemented**

**Do you have any Innovative /
Challenging Projects or Concepts**

Nungambakam, Chennai-6. Near Ganpati Hotel, Above IOB, Next to ICICI

www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com

044-28235816, 98411 93224, 93801 02891

NCCT

**www.ncct
.in**

**EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,**

The Indian semiconductor and embedded design industry is projected to grow from \$ 3.3 billion in 2005 to \$ 43 billion in 2015.

This tremendous rate of growth will require a large number of skilled professionals, more than 500,000

Expansion plans by MNCs and NASSCOM suggest embedded systems to be the next sunrise sector.

IEEE 2010 PROJECTS

- 1. Development of a System to Detect Surgical Material Retained in the Patients during Operation – 2010**
- 2. Fingerprint Based Identity Authentication for Online Examination System - 2010**
- 3. GPS-GSM Integration for Enhancing Public Transportation Management Services - 2010**
- 4. A Remote Home Security System Based on Wireless Sensor Network and GSM Technology - 2010**
- 5. Bidimensional Control System through Successive Monitoring for Obstacles Identification - 2010**
- 6. A Robot Motion Authoring using Finger –Robot Interaction – 2010**
- 7. Design of Intelligent Traffic Light Controller using Embedded Systems – 2010**
- 8. GSM based ECG Tele Alert System – 2010**

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

9. Ambient Intelligent Robot Sensor Networks for Environmental Surveillance and Remote Sensing – 2010
10. A New Intelligent Remote Control System for Home Automation and Reduce Energy Consumption – 2010
11. Autonomous Agricultural Robot and its Row Guidance – 2010
12. Individual Plan Recognition using the RGB Color Model – 2010
13. Development of an Ambulatory Multi Parameter Monitoring System for Physiological Stress Related Parameters – 2010
14. Head Motion Controlled Power Wheel Chair – 2010
15. Preventing Cot Death for Infants in Day Care – 2010
16. An embedded system and rfid solution for transport related issues - 2010
17. A Real-Time Wireless Brain–Computer Interface System for Drowsiness Detection - 2010
18. ZigBee Sensor Network for Advanced Metering Infrastructure – 2010
19. Zigbee based Vehicle Access Control System - 2010
20. Design of Miniaturized Wireless Sensor Mote and Actuator for Building Monitoring and Control - 2010
21. A Mobile GPRS-Sensors Array for Air Pollution Monitoring - 2010
22. A Low Cost Microcontroller Implementation of Neural Network Based Hurdle Avoidance Controller for a Car-Like Robot – 2010
23. Identifying Objects using RF Transmitters and Receivers and Retrieving Data using GSM - 2010
24. Design and Fabrication of Holonomic Motion Robot using DTMF Control Tones - 2010

25. Improvement of Energy Consumption for “Over-the-Air” Reprogramming in Wireless Sensor Networks - 2010
26. Design and Application of Mobile Embedded Systems for Home Care Applications – 2010
27. ATM Terminal Design is based on Fingerprint Recognition – 2010
28. A Novel Technique for Preventing Current Method Electricity – 2010
29. Wireless Fingerprint Attendance System based on Zigbee Technology – 2010
30. A Project-Based Laboratory for Learning Embedded System Design With Industry Support – 2010
31. An Embedded Electric Meter based on Bluetooth Data Acquisition System – 2010
32. An Empirical Study of RF link for Wireless automotive Active/Passive Entry System - 2010
33. ZigBee-Wireless Mesh Networks for Building Automation and Control - 2010
34. Wireless Measurement and Control System for Environmental Parameters in Greenhouse – 2010
35. Design of Intelligent Tire Safety Pre-alarm System Based on ARM7 - 2010
36. Design of Intelligent Mobile Vehicle Checking System Based on ARM7 - 2010
37. The Electrical Ethernet monitoring system based on embedded Web server – 2010
38. A New Scheme for Management of Cinema Multiplex System in a Cost Effective way by using RFID – 2010

39. Real Time Automization of Agricultural Environment for Social Modernization of Indian Agricultural System – 2010
40. Engineering Location Based Path finding on Indian Road Networks Over Low End Mobile Phones - 2010
41. Applications of Wireless Sensor Networks in the Oil, Gas and Resources Industries - 2010
42. A Wireless Quiz System using Low Power Microcontrollers - 2010
43. Design and application of an automatic packaging machine controller based on AT mega 128/AT89s51 - 2010
44. Design and Implementation of Nodes Based on CC2430 for the Agricultural Information Wireless Monitoring - 2010
45. Design of ARM-based Embedded Ethernet Interface – 2010
46. Wireless Image Communication Systems for Fire Fighting Robots – 2010
47. Design of Substation Temperature Monitoring System based on Wireless Sensor Networks – 2010
48. Wireless Health Monitoring System for Vibration Detection of Induction Motors – 2010
- 49.A SMACRM CMOS Short-Range Wireless-Sensor-Network Interface for Automotive Applications – 2010
50. Multifunctional Intelligent Autonomous Parking Controllers for Car like Mobile Robots – 2010
51. Joint-Angle Measurement Using Accelerometers and Gyroscopes—A Survey – 2010
52. Energy Harvesting from Vibration with Alternate Scavenging Circuitry and Tapered Cantilever Beam – 2010

53. Autonomous Light Control By Wireless Sensor and Actuator Networks – 2010
54. A Model of Proximity Control for Information-Presenting Robots – 2010
55. Driver Behavior Analysis during ACC Activation and Deactivation in a Real Traffic Environment – 2010
56. Group Elevator Scheduling with Advance Information for Normal and Emergency Modes in Building Management Systems – 2010
57. Hardware Implementation of RFID Mutual Authentication Protocol – 2010
58. Energy Management Policies for Passive RFID Sensors with RF Energy Harvesting – 2010
59. Energy Harvesting from Piezoelectric Materials Fully Integrated in Footwear – 2010
60. Design of the Measurement Node of The Grain Quantity Monitoring System based on the Can-Bus – 2010
61. Real-Time Monitoring of GPS Tracking Tractor based on MIWI Multi-Hop Mesh Network – 2010
62. The Vertical Handoff between GSM and 2.4 GHz Networks for Vehicular Communication – 2010
63. Automatic Detection of Train Arrival through an Accelerometer – 2010
64. Camera-in-Hand Robotic System for Remote Monitoring of Plant Growth in a Laboratory – 2010
65. Wind Speed Measurement and Uncertainty Analysis using Ultrasonic Sensors – 2010
66. Real-Time Remote Transmission of Multiple Tactile Properties through Master Slave Robot System – 2010

67. Mobile Human Airbag System for Fall Protection using MEMS Sensors and Embedded SVM Classifier – 2010
68. Global System for Mobile Communications (GSM) based ECG Tele-Alert System – 2010
69. Efficient Movement Detection for Human Actions using Tri-Axial Accelerometer – 2010
70. A Tri-Axial Accelerometer based Physical Activity Recognition via Augmented Signal Features and a Hierarchical Recognizer – 2010
71. High-Power Integrated Stimulator Output Stages with Floating Discharge Over a Wide Voltage Range for Nerve Stimulation – 2010
72. An Ultra-Low-Power Pulse Oximeter Implemented with an Energy-Efficient Transimpedance Amplifier – 2010
73. Microcontroller based Pulse Oximeter for Undergraduate Capstone Design – 2010
74. Miniaturized Wireless Sensing System for Real-Time Breath Activity Recording – 2010
75. Effects of Power Lines on Performance of Home Control System – 2010
76. Analytical Approach for Well-Being Assessment of Small Autonomous Power Systems with Solar and Wind Energy Sources – 2010
77. Digital Average Current-Mode Control of PWM DC–DC Converters without Current Sensors – 2010
78. Fuzzy Logic Motor Speed Control with Real-Time Interface using an 8-Bit Embedded Processor – 2010
79. High-Efficiency ZCS Buck Converter for Rechargeable Batteries – 2010
80. Challenges and Direction Toward Secure Communication in the SCADA System – 2010

81. A New Distributed Localization Algorithm for ZigBee Wireless Networks – 2010
82. A Node Localization Scheme for Zigbee-based Sensor Networks – 2010
83. A novel approach of maximizing energy harvesting in photovoltaic systems based on bisection search theorem – 2010
84. A Performance Comparison of Energy Conservation between Idle Mode and Power Down Mode for Microcontroller in Wireless Mobile Node – 2010
85. A Security Analysis for Wireless Sensor Mesh Networks in Highly Critical Systems – 2010
86. A Self-powered Power Management Circuit for Energy Harvested by a Piezoelectric Cantilever – 2010
87. A Smart ZIGBEE Based Wireless Sensor Meter System – 2010
88. A Surveillance Robot with Hopping Capabilities for Home Security – 2010
89. A Zigbee Based Wireless Sensor Network for Sewerage Monitoring – 2010
90. A ZigBee-Based Home Automation System – 2010
91. Adding New Functions to the Remote Airfield Lighting System – 2010
92. An Intelligent Road Traffic Control System – 2010
93. An Intelligent Telecardiology System Using a Wearable and Wireless ECG to Detect Atrial Fibrillation – 2010
94. An RFID-Based Closed-Loop Wireless Power Transmission System for Biomedical Applications – 2010
95. Application and Evaluation of High Power Zigbee Based Wireless Sensor Network in Water Irrigation Control Monitoring System – 2010

96. Application of Complementary Signals in Built-In Self Testers for Mixed-Signal Embedded Electronic Systems – 2010
97. Combined Scheduling of Ultrasound And GPS Signals in A Wearable ZigBee-Based Guidance System for The Blind – 2010
98. Data Transmission System of an Optically Steered Modulated Laser Beam – 2010
99. Design and Built of on - Load Fully Electronic Tap-Changer with Triac Switch: Simulation and Practical Results – 2010
100. Design and Development of RFID Label for Steel Coil – 2010
101. Design and Implementation of the Zigbee-based body sensor network system – 2010
102. Design and Implementation of ZigBee Based Wireless Sensor Network for Remote SpO2 Monitor – 2010
103. Design of the Temperature Control System of Solar Cell Lamination Machine – 2010
104. Designing Switching System for AC Powered Appliances Using Microcontroller – 2010
105. Development of Remote Waste Gas Monitor System – 2010
106. Embedded Programmable Web-based ECG Monitoring & detection System Using a Fast Algorithm – 2010
107. Fabrication of Microcontroller Based Multipurpose Measuring system with Inbuilt Data Acquisition – 2010
108. Full-wave-based location system method evaluation – 2010
109. InfoPods: Zigbee-Based Remote Information Monitoring Devices for Smart-Homes – 2010
110. Location-Aware Fall Detection System for Medical Care Quality Improvement – 2010

111. Microcontroller Based Low Cost Controlled Rectifiers Training Module for Power Electronics Laboratory – 2010
112. Microcontroller Based Neural Network Controlled Low Cost Autonomous Vehicle – 2010
113. Microcontroller Controlled ECG Simulator – 2010
114. Microcontroller-Based Two-Axis Solar Tracking System – 2010
115. Open Wireless Sensor Network Telemetry Platform for Mobile Phones – 2010
116. Power-Accuracy Tradeoffs in Human Activity Transition Detection – 2010
117. Proposal of Plug and Play Ego-motion Estimator for Mobile Robot – 2010
118. Route Navigation System in Zigbee-based Sensor Networks – 2010
119. Self-Sustaining Control of Two-Wheel Mobile Manipulator using Sliding Mode Control – 2010
120. Wireless Sensor Network for Performance Monitoring of Electrical Machine – 2010
121. ZigBee Based Intelligent Helmet for Coal Miners – 2010

**We develop projects as per
your requirements**

**We do implement
IEEE paper of your choice**

**Any Project Customization
will also be done @ NCCT**

122. A Portable Wireless Eye Movement-Controlled Human-Computer Interface for the Disabled – 2009
123. Providing Group Tour Guide by RFIDs and Wireless Sensor Networks – 2009
124. A Novel Vehicle Safety Model: Vehicle Speed Controller under Driver Fatigue – 2009
125. Design & Development of a GSM Based Vehicle Theft Control System – 2009
126. Development of Energy Management and Warning System for Resident: An Energy Saving Solution – 2009
127. A Single-Chip CMOS Smoke and Temperature Sensor for an Intelligent Fire Detector – 2009
128. Bus Detection Device for the Blind using Passive RFID Application – 2009
129. Car Park System: A Review of Smart Parking System and its Technology – 2009

130. Distributed Sensor for Steering Wheel Grip Force Measurement in Driver Fatigue Detection – 2009
131. Providing Group Tour Guide by RFIDs and Wireless Sensor Networks - 2009
132. Implementation of an Improved Secure System Detection for E-passport by using EPC RFID Tags - Multi Usage RFID and FP - 2009
133. RFID Technology as Sustaining or Disruptive Innovation Applications in the Health care Industry -- Health Card - 2009
134. New Power Quality Solutions Especially Designed for Industrial Applications – 2009
135. Dynamic Integration of Zigbee Home Networks Into Home Gateways Using Osgi Service Registry - 2009
136. The Tire as an Intelligent Sensor – 2009
137. Web-Based Caregiver Monitoring System for Assisting Visually Impaired People – 2009
138. Wireless Medical Interface using ZigBee and Bluetooth Technology - 2009
139. Wireless communications in networked robotics – 2009
140. The Mobile ECG Telemonitoring System based on GPRS and GPS – 2009
141. The integrated unit for MEMS based Pressure measurement – 2009
142. Boarding School Students Monitoring Systems (E-ID) Using Radio Frequency Identification - 2009
143. Design of Software Services for Computer-based Infection Control and Antibiotic Management in the Intensive Care Unit – 2009
144. Development of Zigbee Mobile Router for Supporting Network Mobility in Healthcare System – 2009

145. Research of Traffic Signal Light Intelligent Control System based on Microcontroller – 2009
146. A Unified Framework of Data Exchange Mechanism in an Intelligent Transportation System – 2009
147. Multisensor Strategies to Assist Blind People: A Clear-Path Indicator – 2009
148. The Role of Zigbee Technology in Future Data Communication System – 2009
149. Applications of Short-Range Wireless Technologies to Industrial Automation: A Zigbee Approach - 2009
150. A single-camera feature-based vision system for helicopter autonomous landing - 2009
151. Design and Assessment of an Online Passenger Information System for Integrated Multimodal Trip Planning – 2009
152. Development of a Smart Power Meter for AMI Based on ZigBee Communication - 2009
153. Development of ZigBee Mobile Router for Supporting Network Mobility in Healthcare System - 2009
154. A Wireless Data Acquisition and Transmission System Design - 2009
155. Human Recognition using RFID Technology and Stereo Vision – 2009
156. Humanoid tele operation system for space environments - 2009
157. Road traffic estimation from cellular network monitoring a hands on investigation -- GSM Highway Road Traffic Monitoring System - 2009
158. SMS Based Wireless Home Appliance Control System for Automating Appliances and Security - 2009
159. Traffic Density Estimation And Vehicle Classification For Traffic Surveillance Systems Using Neural Networks - 2009

160. Wireless Energy Meter – 2009
161. IMM-Based Lane-Change Prediction in Highways with Low-Cost GPS/INS – 2009
162. Mobile robots in Mine Rescue and Recovery – 2009
163. Mobile Health Monitoring Through Biotelemetry – 2009
164. A Survey of RFID Tags - 2009
165. A robust eye gaze tracking method based on a virtual eyeball model - 2009
166. A Unified Framework of Data Exchange Mechanism in an Intelligent Transportation System - 2009
167. Design and Implementation of Automatic Fire Alarm System based on Wireless Sensor Networks - 2009
168. Development of Academic Attendance Monitoring System Using Fingerprint Identification - 2009
169. Dynamic Obstacle Detector Using Local range Decrement - 2009
170. Mobile Health Monitoring Through Biotelemetry - 2009
171. Multisensor-Based Human Detection and Tracking for Mobile Service Robots - 2009
172. Multisensor Strategies to Assist Blind People: A Clear-Path Indicator – 2009
173. Research and Development of the Remote I/O Data Acquisition System Based on Embedded ARM Platform - 2009
174. RFID tag bearing estimation for mobile robot localization – 2009
175. RFID based People Management System using UHF Tags - 2009
176. Robust Sensor-Based Navigation for Mobile Robots – 2009

177. Real- Time Monitoring and Pre-alarm System for Dangerous Mountains in the Railway Line - 2009
178. Sensor Networks for Industrial Applications – 2009
179. Security Architecture for RFID Application in Home Environment – 2009
180. Sleep and Wake Classification with ECG and Respiratory Effort Signals – 2009
181. Solar Power Generation using SPS and Wireless Power Transmission – 2009
182. Remote-Controllable and Energy-Saving Room Architecture based on ZigBee Communication – 2009
183. Remote -Controllable and Energy-Saving Room Architecture based on ZigBee Communication - 2009
184. The Role Of Zigbee Technology In Future Data Communication System – 2009
185. Fuzzy Logic based Control of Variable Speed Induction Machine Wind Generation System – 2009
186. Load Shedding based Resource Management Techniques for RFID Data – 2009
187. New Method Of Saving Energy for Automobiles – 2009
188. Real-Time Pedestrian Detection and Tracking at Nighttime for Driver-Assistance Systems – 2009
189. Cost Effective GPS-GPRS based Object Tracking System – 2009
190. Application of Zigbee for Pollution Monitoring Caused by Automobile Exhaust Gases – 2009
191. A ZigBee and ZigBee-to-IR Device Control Scheme for Single Media Multi Devices - 2009

192. A Robust Eye Gaze Tracking Method based on a Virtual Eyeball Model – 2009
193. Pantopteron: A New Fully Decoupled 3DOF Translational Parallel Robot for Pick-and-Place Applications – 2009
194. Using Visual Attention to Evaluate Collaborative Control Architectures for Human Robot Interaction - 2009
195. A multi-robot coordination system based on RFID technology – 2009
196. ASSIST – Automated System for Surgical Instrument and Sponge Tracking – 2008
197. A Distributed Measurement System to Estimate Plant Water Content in Agricultural Fields based on Wireless Sensor Networks – 2008
198. Automated Vehicles For Physically and Visually Challenged - - 2008
199. Automatic control of students' attendance in classrooms using RFID
200. An Enhanced parking lot service model using wireless sensor network – 2008
201. ZigBee Based Wireless Sensor Networks and Its Applications in Industrial - 2008
202. An Intelligent Mobile Robot Navigation Technique Using RFID Technology – 2008
203. Using RFID Technology to Develop an Attendance System and Avoid Traffic Congestion around Kindergartens – 2008
204. GSM based Secured ATM Banking - 2008
205. Automatic System for Measuring & Controlling the Length of a Moving Product in Industries – 2008
206. Three-Dimensional Password for More Secure Authentication - 2008
207. EnerBee – Example of an Advanced Metering Infrastructure based on Zigbee – 2008

- 208. Fingerprinting Passports – 2008
- 209. Travel time prediction under heterogeneous traffic conditions using global positioning system data from buses - 2008
- 210. Breathing Detection: Towards a Miniaturized, Wearable, Battery-Operated Monitoring System -2008
- 211. A Blind Navigation System Using RFID for Indoor Environments– 2008
- 212. A Mobile Electronic Toll Collection for E-Commerce Applications – 2008
- 213. Wireless Home Security and Automation System Utilizing ZigBee based Multi-hop Communication – 2008
- 214. Design and Implementation of a Wireless Automatic Meter Reading System -2008
- 215. Embedded Vehicle Control System Based on Voice Technologies
- 216. Real Time Decision Support for Energy Management - 2008
- 217. Research Challenges for the Security of Control Systems - 2008
- 218. Remote Controlling of Home Appliances using Mobile Telephony - 2008
- 219. Smart Configurable Wireless Sensors for Industrial Monitoring and Control - 2008
- 220. Wheelchair Type Biomedical System with Event-Recorder Function – 2008
- 221. A New Method of Infrared Sensor Measurement for Micromouse Control to Deliver Drugs – 2008
- 222. A Low Cost GSM/GPRS based Wireless Home Security System – 2008
- 223. An integrated Zigbee automation system: An energy saving solution – 2008

- 224. Framework for Pervasive Health Monitoring – 2008
- 225. Design and Implementation of Home Automation System – 2008
- 226. GPS-based Vehicle Tracking System-on-Chip – 2008
- 227. GSM-based Notification Speed Detection for Monitoring Purposes -
2008
- 228. GSM / GPRS based Wireless Motion Detection System using PIR
Sensor – 2008
- 229. Measuring and Transmitting Vital Body Signs using MEMS Sensor - 2008
- 230. Networked Wireless Meter Reading System based on Zigbee
Technology - 2008
- 231. Path Planning Automated Guided Robot – 2008
- 232. Indoor Autonomous Navigation of Blind Persons using RFID Sensing
Robots – 2008
- 233. Patient Monitoring using GSM & Zigbee for Hospitals & Old age
Homes – 2008
- 234. PGS: Parking Guidance System based on Wireless Sensor Network –
2008
- 235. Remote Controlling of Home Appliances using Mobile Telephony –
2008
- Remote Data Capture, Acquisition and Sending SMS to Remote Mobile - 2008
- 236. Traffic Management by Constant Time to Collision – 2008
- 237. Web based Personal Health Systems – Models and Specifics – 2008
- 238. Wheelchair Type Biomedical System with Event-Recorder Function -
2008
- 239. Wireless Healthcare Monitoring System for Home – 2008

240. Wireless Sensor Network for Wearable Physiological Monitoring – 2008
241. Wireless Network for Measurement of Whole-Body Vibration – 2008
242. Wireless Reprogramming of Vehicle Electronic Control Units - 2008
243. Zigbee for Intelligent Transport system applications - 2008
244. Zigbee Wireless Vehicular Identification and Authentication System – 2008
245. Zigbee-based Alarm System for Pervasive Health Care in Rural Areas – 2008
246. ZigBee Device Access Control & Reliable Data Transmission in ZigBee Based Health Monitoring System - 2008
247. RFID based Vehicle Number Tracking and Traffic Monitoring - 2008
248. Robust and Efficient Password-Authenticated Key Agreement using Smart Cards or Campus Management - 2008
249. Remote Power ON/OFF control & current measurement for Home Electric Outlets based on a Low Power Embedded Board & Zigbee communication - 2008
250. Remote Sensing and Control of an Irrigation System using a Distributed Wireless Sensor Network - - 2008
251. Smart Configurable Wireless Sensors and Actuators for Industrial Monitoring and Control – 2008
252. Design & Implementation of Short Message Query System using GSM Modem – 2008
253. The Research and Development of the Highway Electronic Toll Collection System – 2008
254. Hydraulic Simulation and Remote Control System of Field Robot - 2008

- 255. Swarm Robot Synchronization Using RFID Tags - 2008
- 256. A Hands Gesture System of Control for an Intelligent Wheelchair – 2007
- 257. An RFID based Pilgrim Identification System – 2007
- 258. The Electronic Passport and the Future of Government Issued RFID based Identification – 2007
- 259. RF Controller Development and Its Application in Intelligent Transport system – 2007
- 260. A RFID System to Help Visually Impaired People in Mobility – 2007
- 261. Voice Command Control for Mobile Robots – 2007
- 262. An Infant Monitoring System Using CO / sub 2 / Sensors – 2007
- 263. Develop a Multiple Interface Based Fire Fighting Robot – 2007
- 264. Development of Autonomous Robotic Wheelchair Controller Using Embedded – 2007
- 265. Solar Energy Conversion System using Power Electronics – 2007
- 266. The design and implementation of an autonomous campus patrol robot - 2007
- 267. Remote-controlled Home Robot Server with Zigbee Sensor Network - 2007
- 268. MeshEye: A Hybrid – Resolution Smart Camera Mote for Applications in Distributed Intelligent Surveillance – 2007
- 269. Intelligent Fleet Management System with Concurrent GPS & GSM - 2007
- 270. Intelligent Vehicular Transportation System (In Ve Tras) – 2007
- 271. The Electronic Passport and the Future of Government Issued RFID Based Identification - 2007

- 272. Utilizing RFID Signaling Scheme for Localization of Stationary Objects and Speed Estimation of Mobile Objects – 2007
- 273. Localization in Zigbee based Sensor Networks – 2007
- 274. Implementation of an Automatic Fingerprint Identification System – 2007
- 275. Measurement of ECG, Respiratory Rate, Tilt and Temperature of a Patient and Wireless Zigbee Data Transmission – 2007
- 276. Automatic Power Meter Reading system using GSM Network – 2007
- 277. Home based Healthcare Monitoring over Wireless Biomedical Sensor Network – 2007

- 278. Using Fuzzy Logic in Automated Vehicle Control – 2007
- 279. Ultra Low Power Wireless weather Station – 2007

- 280. N 2007
- 281. Z Industrial – 2007
- 282. W Digital Door L
- 283. Z
- 284. A Meter system
- 285. A olution – 2007

www.ncct

Quality Learning

Flexibility

On Time Complete

Complete Guidance

Excellent Support

Live/Real Time

working Model / Kit for

each Project

ROBOTICS PROJECTS

1. A Modular Cost-Effective Mobile Robot Navigation System Using RFID Technology - 2009
2. A Fast Onboard Relative Positioning Module for Multi robot Systems – 2009
3. Real-time audio-visual calls detection system for a Chicken Robot - 2009
4. Swarm Robot Synchronization using RFID Tags – 2009

5. Speed and position Control of Autonomous Mobile Robot on Variable Trajectory Depending on its Curvature – 2009
6. Simple sensors provide inputs for cognitive robots – 2009
7. Development of a Module based Platform for Mobile Robots – 2008
8. Coal Mine Detect and Rescue Robot Design and Research – 2008
9. A Fuzzy Controller for Autonomous Negotiation of Stairs by a Mobile Robot with Adjustable Tracks – 2008
10. A novel robot system for surface inspection and diameter measurement of large size – 2008
11. A task planner for a dual-arm robot: A geometric formulation – 2008
12. A Methodology for Implementation the CPAC Approach to Path Tracking with Six-DOF Robotic Manipulators – 2008
13. GPS-Based Path Following Control for a Car-Like Wheeled Mobile Robot With Skidding and Slipping - 2008
14. Hydraulic Simulation and Remote Control System of Field Robot – 2008
15. Implementation of Obstacle Avoidance and ZigBee Control Functions for Omni Directional Mobile Robot - 2008
16. Interactive Object Acquisition based on Robot Technology Middleware (RTM) for 3 – Axis Robot – 2008
17. Real-time Bluetooth communication system for control of a mobile robot - 2008
18. Real-Time Control of a Two-Wheeled Inverted Pendulum Mobile Robot – 2008
19. Robotic Software Architecture for Multi-sensor Fusion System - 2008
20. Visual Servo Control of a Three Degree of Freedom Robotic Arm System – 2008

21. Walking Hexapod Robot in Disaster Recovery: Developing Algorithm for Terrain Negotiation and Navigation – 2008
22. An autonomous surveillance and security robot team – 2007
23. A Dynamic Target Tracking of Car-Like Wheeled Robot in a Sensor-Network Environment via Fuzzy Decentralized Sliding-Mode 2007
24. Autonomous Fire-Detection System Using Adaptive Sensory Fusion for Intelligent Security Robot - Mechatronics, IEEE - June 2007
25. Development of a Person Following Mobile Robot in Complicated Background by Using Distance and Color Information - 2007
26. Using AC Motors in Robotics – 2007
27. Design and Implementation of Internet Based Healthcare Robot System – 2007
28. Fuzzy Controller Designed by GA for Two-Wheeled Mobile Robots – 2007
29. The WURDE Robotics Middleware and RIDE Multi-Robot Tele-Operation Interface – 2006
30. Modular Sensor Processing for Robotics based Security in Hazardous Environments – 2006
31. MERMAID – Multiple Robot Middleware for Intelligent Decision-Making – 2006
32. Development of a Multimode Navigation System for an Assistive Robotics Project – 2006
33. Semi-Autonomous Teleoperation of Multiple Cooperative Robots for Human-Robot lunar Exploration – 2006
34. Security Service Robot in ubiquitous Environment based on Cognitive Robotic Engine – 2006
35. The Future of Robot-Assisted Learning in the Home – 2006

36. Dual functional Reconfigurable Mobile Robot - 2006
37. Conveyor Visual Tracking using robot Vision – 2006
38. BlueBot: asset tracking via robotic location crawling - Pervasive Services, 2005
39. A Humanoid Robot to Prevent Children Accidents – 2005
40. A Voice Guiding System for Autonomous Robots- 2005
41. Development of Autonomous Robotic Wheelchair System – 2005
42. Neuro Fuzzy Controllers and Application to Autonomous Robots – 2005
43. The OmniTread Serpentine Robot for Industrial Inspection and surveillance – 2005
44. A Tele-Operated Humanoid Robot Drives a Lift Truck
45. A TestBed for Voice based Robot Control
46. An Autonomous Assistant Robot for Book manipulation in a Library
47. An Exoskeletal Robot Manipulator for Lower Limbs Rehabilitation
48. Drishti: an integrated navigation system for visually impaired and disabled
49. Vision Control of a Robotic Hand
50. Deriving and Matching Image Fingerprint Sequences fro Mobile Robot Localization
51. Design and Implementation of an Open Autonomous Mobile Robot System
52. Designing a Secure and Robust Mobile Interacting Robot for the Long Term
53. Detection of Abnormal Movement of Industrial Robots using Image Sequence

54. Dual functional reconfigurable mobile robot – IEEE
55. Fusion of Voice, Gesture, and human-Computer Interface Controls for Remotely Operated Robot
56. Firebot: Design of an Autonomous Fire Fighting Robot
57. Hybrid Control of Semi-Autonomous Robots
58. Implementing Multiple Robot Architectures using Mobile Agents
59. Navigation of Mobile Robot using Global Positioning System (GPS) and Obstacle Avoidance System with Commanded
60. Obstacle Avoidance of Mobile Robots using Ordinal structure Model of Fuzzy Reasoning Approach
61. RoboCart: Toward Robot-Assisted Navigation of Grocery Stores by the Visually Impaired
62. Telerobotics: Through-The-Internet Teleoperation of the ABB IRB 2000 Industrial Robot
63. Control and Monitoring of Mobile Robot system using Bluetooth
64. Control of a Simple DC Motor Robot Equiped with Ultrasonic Sensors via a Field Programmable Gate Array

RFID PROJECTS

1. Mobile RFID Tag Detection Influence Factors and Prediction of Tag Detectability – 2009
2. Ontology Alignment in RFID Privacy Protection – 2009
3. Boarding School Students Monitoring Systems (E-ID) Using Radio Frequency Identification - 2009
4. Providing Group Tour Guide by RFIDs and Wireless Sensor Networks - 2009
5. Car Park System: A Review of Smart Parking System and its technology - 2009
6. Load Shedding based Resource Management Techniques for RFID Data - 2009
7. RFID based People Management System using UHF Tags - 2009
8. A Wireless-Implantable Micro system for Continuous Blood Glucose Monitoring - 2009
9. RFID tag bearing estimation for mobile robot localization - 2009
10. A Secure Architecture for the Use of RFID at Home - 2009
11. A Low-Cost Wireless Sensor System and Its Application in Dental Retainers - 2009
12. Mobile RFID Tag Detection Influence Factors and Prediction of Tag Detectability - 2009
13. Ontology Alignment in RFID Privacy Protection - 2009
14. A Modular Cost-Effective Mobile Robot Navigation System Using RFID Technology - 2009

15. Human Recognition using RFID Technology and Stereo Vision - 2009
16. RFID Based Library Management System - 2009
17. A Comparative Analysis of RFID Adoption in Retail & Manufacturing Sectors - 2008
18. Design of an RFID-Based Battery-Free Programmable Sensing Platform – 2008
19. Dynamic Traffic Light Sequence Algorithm using RFID - 2008
20. Integration of RFID and Wireless Sensor Networks – 2008
21. Location-based System for Mobile Devices using RFID – 2008
22. Neural Network Based Efficient Knowledge Discovery in Hospital Databases Using RFID Technology - 2008
23. Pinpointing the Place of Origin of a Cellular Phone Emergency Call Using Active RFID Tags - 2008
24. Policy and Role based Mobile RFID User Privacy Data Management System– 2008
25. RFID application strategy and Deployment in Bike Renting system - 2008
26. SIP-RLTS: An RFID Location Tracking System based on SIP – 2008
27. Tamper Detection in RFID-Enable Supply Chains – 2008
28. Smart Configurable Wireless Sensors and Actuators for Industrial Monitoring and Control - 2008
29. Location-based System for Mobile Devices using RFID - 2008
30. Design of a Semi-Autonomous Parking Assist System - 2008
31. Automatic control of students' attendance in classrooms using RFID - 2008

32. An Intelligent Mobile Robot Navigation Technique Using RFID Technology - 2008
33. The Research and Development of the Highway Electronic Toll Collection System - 2008
34. PGS: Parking Guidance System based on Wireless Sensor Network - 2008
35. RFID based Vehicle Number Tracking and Traffic Monitoring - 2008
36. Hospital Automation RFID-Based Technology Stored In Smart Cards - 2008
37. Building A Smart University using RFID Technology - 2008
38. Design of an RFID-Based Battery-Free Programmable Sensing Platform - 2008
39. Parking Guidance System using RFID and Image Processing Techniques in WSN Environment – 2007
40. Shopping Path Analysis and Transaction mining based on RFID Technology – 2007
41. Transportation Quality Monitor Using Sensor Active RFID - 2007
42. The Case for Multi-Tag RFID Systems – 2006
43. Radio Frequency Identification (RFID): Applications and Indian Scenario – 2006
44. An RFID Application for the Disabled: Path Finder- 2005
45. Application Fields of RFID in Health Safety and Environment management – 2005
46. Inventory Management using Passive RFID Tag: A Survey
47. The Blocker Tag: Selective Blocking of RFID Tags for Consumer Privacy

NCCT
www.ncct
.in

EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,

48. Utilizing RFID signaling scheme for localization of stationary objects and speed estimation of Mobile objects

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

FINGERPRINT PROJECTS

1. Fingerprint Authentication System using a Low-Priced Webcam – 2008
2. Fingerprint Authentication using Back-Propagation Algorithm – 2008
3. Integrating Fingerprint with Cryptosystem for Internet based Live Pay-TV System – 2007
4. Biometric Mobile Template Protection: A Composite Feature based Fingerprint Fuzzy Vault – 2007
5. Fingerprint Verification for Control of Electronic Blast Initiation – 2006
6. Fingerprinting Codes for Live Pay-Television Broadcast via Internet – 2005
7. Fuzzy Fingerprints for Text based Information Retrieval – 2005
8. Secure and Fast Fingerprint Authentication on Smart Card – 2005
9. Remote Physical Device Fingerprinting – 2005
10. Fingerprint Identification and Verification System using Minutiae Matching
11. Fingerprint Identification using the Accidental coincidence Probability
12. Fingerprint Matching: Data Acquisition and Performance Evaluation
13. Fingerprint Verification using Smart Cards for Access Control Systems
14. Secure Smartcard based Fingerprint Authentication

ZIGBEE PROJECTS

A Zigbee and Zigbee-to-IR Device Control Scheme for Single Media Multi Devices – 2009

- 1. Design and Realization of Wireless Sensor Network Gateway Based on ZigBee and GPRS – 2009**
- 2. Improve Communication Efficiency for the Physiological Information Monitor System Based on Zigbee – 2009**
- 3. A ZigBee wireless sensor network compliant with the IEEE1451 standard - 2009**
- 4. An Automatic TOU Meter Reading using ZigBee - 2009**
- 5. Multistage Waveform Coding for Voice Communication Over Zigbee Networks – 2009**
- 6. An On-line Monitoring System of Temperature of Conductors and Fittings Based on GSM SMS and Zigbee – 2008**
- 7. An Implementation of an Underground Wireless Sensor Network using Zigbee – 2008**
- 8. A wireless network based on the combination of Zigbee and GPRS - 2008**
- 9. Forest Fire Detection System based on a Zigbee Wireless Sensor Network – 2008**
- 10. Zigbee source route technology in Home application - 2008**
- 11. ZigBee WiMAX Nursery System for patient monitoring – 2008**
- 12. Custom wireless sensor network based on Zigbee - 2007**

13. Design of Air pollution monitoring system using Zigbee n/w for Ubiquitous-city – 2007
14. Design and Implementation of ZigBee based URC Applicable to Legacy Home Appliances – 2007
15. Realization of Home remote control network based on Zigbee – 2007
16. Design of an RFID / Zigbee Network for Blind Navigation – 2006
17. Development of Zigbee based Street Light Control System – 2006
18. Remote Wireless Face Recognition Employing Zigbee – 2006
19. Development of Zigbee based Street Light Control System - 2006
20. Parking Management System using Zigbee – 2006
21. Quick Convergecast in Zigbee/IEEE 802.15.4 Tree based Wireless Sensor Networks – 2006
22. Application of Wireless Protocols Bluetooth and Zigbee in Telemetry System Development – 2005
23. Wireless Home Security and Automation System Utilizing Zigbee based Multi-Hop Communication
24. Development of a Zigbee based Wireless Sensor Network Node for Automatic Data Acquisition and Transfer
25. Home Networking with Zigbee

BIO MEDICAL PROJECTS

1. A Novel MEMS Respiratory Flow Sensor – 2010
2. Design and Simulation of a Multi Function MEMS Sensor for Health and Usage Monitoring – 2010
3. A Web Service-based Alarm Solution in a TeleCare System – 2009
4. A Remote Compact Sensor for the Real-Time Monitoring of Human Heartbeat and Respiration Rate - 2009
5. A Low-Cost Wireless Sensor System and Its Application in Dental Retainers – 2009
6. A New Telemedicine System for the Home Monitoring of Lung Function in Patients with Obstructive Respiratory Diseases – 2009
7. Body Temperature and Electrocardiogram Monitoring Using an SMS-based Telemedicine System – 2009
8. Implantable Myoelectric Sensors (IMESs) for Intramuscular Electromyogram Recording – 2009
9. Assessment of Changes in Upper Airway Obstruction by Automatic Identification of Inspiratory Flow Limitation During Sleep – 2009
10. Opportunistic Medical Monitoring using Bluetooth P2P networks - 2009
11. Automated Phone Capture of Diabetes Patients Readings / Consultant Monitoring via the Web - 2008
12. An Ear-Lead ECG based Smart Sensor System with Voice Biofeedback for Daily Activity Monitoring – 2008
13. A Portable Intelligent ECG Monitor based on Wireless Internet and Embedded System Technology – 2008

14. **Electronic Medical Record for Effective Patient Monitoring Database – 2008**
15. **Mobile Messaging Services based personal Electrocardiogram Monitoring System – 2008**
16. **E-Inclusion Technologies for the Speech Handicapped – 2008**
17. **Mobile Web Server for Elderly People Monitoring – 2008**
18. **Wearable Physiological Monitoring System using 2.4Ghz RF Transceiver – 2007**
19. **Extended Health Visibility in the Hospital Environment – 2007**
20. **Face Detection using PCA and Skin-Tone Extraction for Drowsy Driver Application – 2007**
21. **Processor Customization for Wearable Bio-Monitoring Platforms – 2007**
22. **Wireless Stand-Alone Portable Patient Monitoring and Logging System – 2007**
23. **A Framework for Patient Monitoring – 2006**
24. **Remote Non-Intrusive Patient Monitoring – 2006**
25. **An Ultra Wearable, Wireless, Low Power ECG Monitoring System – 2006**
26. **Wireless Sensor Networks for Patient Monitoring – 2006**
27. **Novel Long-Term Implantable Blood Pressure Monitoring System with Reduced Baseline Drift – 2006**
28. **An Embedded Control System for Intelligent Wheelchair – 2005**
29. **Home Care and Health maintenance Systems – 2005**
30. **Integrated Environment for Assisted Movement of Visually Impaired – 2005**

31. Integrated Motion Control of a Wheelchair in the Longitudinal, Lateral and Pitch Directions – 2005
32. Alternative Energy storage system for Hybrid Electric Vehicles
33. A Wireless based Sensor for Patient Monitoring System with Remote Diagnostic
34. AMON: A Wearable Multiparameter Medical Monitoring and Alert System
35. Patient Monitoring using Personal Area Networks of Wireless Intelligent Sensors

INTELLIGENT
TRANSPORT
SYSTEM

1. A Low-Cost Solution for an Integrated Multisensor Lane Departure Warning System – 2009
2. A Smart Car Control Model for Brake Comfort Based on Car Following - 2009
3. Design and Implementation of Real Time Vehicle Tracking System – 2009
4. Qualitative Vision-Based Path Following – 2009
5. Development of a Tilt Measurement Unit using Microelectromechanical System Accelerometer - 2009
6. Detecting Driver Drowsiness using Computer Vision Techniques – 2008
7. Design of a Semi-Autonomous Parking Assist System – 2008
8. Detection of Hazardous Driving Behavior using Fuzzy Logic – 2008
9. Detection and Recognition of End-of-Speed-Limit and Supplementary Signs for Improved European Speed Limit Support – 2008
10. Distributed Real-Time Railway Simulator – 2008
11. Driving Guidance System Based on Wireless Sensor Network – 2008
12. Shortest Path Finding using GPS based Navigation System in Critical Situation – 2008

13. Transport Security using Mobile Technology – 2008
14. Development of pedestrian-to-vehicle communication system prototype for pedestrian safety using both wide-area and direct communication – 2008
15. Autonomous Driving in a Multi-Level Parking Structure – 2008
16. Centralized Monitoring System for Call Taxies (ARM based) - 2008
17. A safety critical network for distributed smart traffic signals – 2008
18. Efficient Cost-Based Tracking of Scheduled Vehicle Journeys – 2008
19. Implementation Of a CAN-Based Multi Controller Digital Driving System for a Vehicle - 2008
20. Integration of Terrestrial Laser Scanner for Ground Navigation in GPS-Challenged Environments – 2008
21. Parking Guidance System Based on Wireless Sensor Network – 2008
22. Adaptive Car Safety System – 2007
23. A Sensor for urban Driving Assistance Systems based on Dense Stereovision – 2007
24. The Design of Vehicle emergent calling system based on GPRS - 2007
25. Robust on-Vehicle Real-Time Visual Detection of American and European Speed Limit Signs, with a Modular Traffic Signs Recognition System - 2007
26. Challenge: Peers on Wheels – A Road to New Traffic Information System – 2007
27. The Vitals Signs Data Monitoring via GPS Navigation System – 2007
28. Predicting Parking Lot Occupancy in Vehicular Ad Hoc Networks – 2007
29. IntelliCarTS: Intelligent Cars Transportation System – 2006

30. Real Time Fleet Monitoring and Security System using GSM Network – 2006
31. Fuzzy Logic Controller for Two-Mode Parallel Hybrid Electric Vehicle – 2006
32. Digital Radar for Collision Avoidance and Automatic Cruise Control in Transportation – 2006
33. System Architecture of a Wireless Body Area Sensor Network for Ubiquitous Health Monitoring – 2006
34. Car-to-Car Communication – 2006
35. Applying Unmanned Ground Vehicle Technologies to Unmanned Surface Vehicles – 2005
36. Vehicle Routing and Road Traffic Simulation: A Smart Navigation System – 2005
37. Wireless Control of Vehicle Mirror System using Head Movement and PIC Microcontroller- 2005
38. Looking-In and Looking-Out of a Vehicle: selected Investigations in Computer Vision based Enhanced Vehicle Safety – 2005
39. A Smarter Computer Controlled Model Car
40. A Vehicle-to-Vehicle communication Protocol for Cooperative Collision Warning
41. A Vision based Vehicle Behavior Monitoring and Warning System
42. An Adaptive Fuzzy Control System for Common Rail Direct Injection
43. An In-Vehicle Vision System for Dangerous Situation Detection
44. Vision based Navigation for an Unmanned Aerial Vehicle

SOLAR PROJECTS

1. An Efficient Solar Energy Harvester for Wireless Sensor Nodes – 2008
2. Maximal Power Point Tracking under Speed-Mode Control for Wind Energy Generation System with Doubly Fed Introduction Generator 2006
3. A Solar-Powered Wireless Data Acquisition Network
4. SOLERO: Solar Powered Exploration Rover

VOICE (HM 2007 IC) PROJECTS

1. Embedded Vehicle Control System Based on Voice Processing Technologies - 2008
2. Relational Interface for a Voice Controlled Wheelchair- 2005

CAN PROJECTS

1. CAN Bus Application in Automotive Network Control – 2010
2. Design of Automatic Meteorological Data Acquisition System based on ARM and CAN Bus – 2010
3. Design of the Measurement Node of the Grain Quantity Monitoring System based on the CAN Bus – 2010
4. Implementation of Interface between Vehicle Bus Network and On Vehicle Information System – 2010

EMBEDDED

PROJECTS

1. AI based Design of a Fuzzy Logic Scheme for Speed Control of Induction Motors using SVPWM Technique – 2009
2. Power Quality Monitoring Controlled Through Low-Cost Modules – 2009
3. CAN- Based Synchronized Motion Control for Induction Motors – 2009
4. A Bridgeless PFC Boost Rectifier with Optimized Magnetic Utilization – 2009
5. A Compensation Technique for Smooth Transitions in a Non Inverting Buck–Boost Converter – 2009
6. A Fuzzy Logic based Supervisory Hierarchical Control Scheme for Real Time Pressure Control – 2009
7. Z-Source Inverter for Power Conditioning and Utility Interface of Renewable Energy Sources – 2009
8. A New PWM Strategy to Reduce the Inverter Input Current Ripples – 2009
9. A Novel Low-Loss Modulation Strategy For High-Power Bi-Directional Buck - Boost Converters – 2009
10. A Novel Technique of Flow Measurement for a Conducting Liquid - 2009
11. A Practical Switching Loss Model for Buck Voltage Regulators – 2009
12. A Review of Non-Isolated High Step-Up DC/DC Converters in Renewable Energy Applications – 2009

13. A Study of New Techniques of Controlled PWM Inverters – 2009
14. An Interleaved Boost Converter with Zero-Voltage Transition – 2009
15. An Efficient Active LC Snubber for Forward Converters – 2009
16. An introduction to I2C and SPI protocols - 2009
17. Zero-Voltage Transition Current-Fed Full-Bridge PWM Converter-2009
18. Capacitance and Inductance Sensor Circuits for Detecting the Lengths of Open- and Short-Circuited Wires – 2009
19. Capacitor Ripple Current in an Interleaved PFC Converter – 2009
20. Comprehensive Approach to Modeling and Simulation of Photovoltaic Arrays - 2009
21. Current Self-Balance Mechanism in Multiphase Buck Converter – 2009
22. Control and Protection of Power Electronics Interfaced Distributed Generation Systems in a Customer-Driven Micro Grid – 2009
23. Closed-Loop Modeling in Future Automation System Engineering And Validation - 2009
24. Design and Control for a Charge-Regulated Fly Back Switch-Mode Rectifier – 2009
25. Digital Control of Resonant Converters: Enhancing Frequency Resolution by Dithering – 2009
26. Very-High-Frequency Resonant Boost Converters – 2009
27. Direct Yaw Moment Control of an In-Wheel-Motored Electric Vehicle based on Body Slip Angle Fuzzy Observer - 2009
28. Dual-Current Pump Module for Transient Improvement of Step-Down Dc–Dc Converters – 2009
29. Dynamics of Multilevel Inverter based Series Compensator for Transmission Lines – 2009

30. Extending the Modeling Framework for Wind Generation Systems: RIS-Based Paradigm for Performance Under High Turbulence Inflow - 2009
31. Energy Efficient Control of Three-Phase Induction Motor – A Review – 2009
32. Embedded Web Server for Wireless Sensor Networks – 2009
33. Family Of Soft-Switching Pwm Converters with Current Sharing In Switches – 2009
34. Fuzzy Multi-State Allocation of the Diesel Engine Fuel Supply System – 2009
35. Global and Local Chassis Control based on Load Sensing – 2009
- Improved Z-Source Inverter With Reduced Z-Source Capacitor Voltage Stress and Soft-Start Capability – 2009
36. Light-Load Efficiency Improvement for Buck Voltage Regulators – 2009
37. Lossless Inductor Current Sensing Method with Improved Frequency Response – 2009
38. Novel Nine-Switch PWM Rectifier-Inverter Topology for Three-Phase UPS Applications – 2009
39. On-Body Inertial Sensing and Signal Processing for Clinical Assessment of Tremor - 2009
40. Bridge Converter for Low-Output-Voltage High-Output-Current Applications-2009
41. Passive and Self-Powered Autonomous Sensors for Remote Measurements – 2009
42. Research on Measuring Equipment of Single-phase Electricity-Stealing with Long-distance Monitoring Function – 2009

43. Research on Zigbee Wireless Sensors Network based on ModBus Protocol – 2009
44. Resonant Contact Less Energy Transfer with Improved Efficiency – 2009
45. Loop Daisy Chaining Application Method – 2009
46. Reversing Radar System based on CAN Bus – 2009
47. Robust Control of DC Motor using Fuzzy Sliding Mode Control with PID Compensator – 2009
48. Semi-Digital Interleaved PFC Control with Optimized Light Load Efficiency – 2009
49. Single-Loop Current Sensor Less Control for Single-Phase Boost-Type SMR – 2009
50. Single-Phase Multilevel Pwm Inverter Topologies Using Coupled Inductors – 2009
51. Single-Stage Soft-Switching Converter with Boost Type of Active Clamp for Wide Input Voltage Ranges – 2009
52. Space Vector Pulse Width Modulation based Speed Control of Induction Motor using Fuzzy PI Controller – 2009
53. Speed-Sensorless, Adjustable-Speed Induction Motor Drive based on Dc Link Measurement – 2009
54. A Fuzzy Logic Controlled Sliding Mode Control (SMC) of Inverter in Shunt Active Power Filter for Power Quality Improvement – 2008
55. A CAN based Distributed Control System for Autonomous All-Terrain vehicle (ATV) – 2008
56. A Novel Automatic Utility Data Collection System using IEEE 802.15.4 – Compliant Wireless Mesh Networks - 2008

57. A Novel Zero Voltage Transition Synchronous Buck Converter for Portable Application – 2008
58. Adaptive Rate Control Low Bit-Rate Video Transmission Over Wireless Zigbee Networks – 2008
59. Defect Prevention and Detection in Software for Automated Test Equipment - 2008
60. Design and Implementation of PLC-based Monitoring Control System for Three-Phase Induction Motors Fed by PWM Inverter – 2008
61. Design of an Intelligent Bi-Directional DC-DC Converter with Half Bridge Topology – 2008
62. Direct Torque Neuro Fuzzy Speed Control of an Induction Machine Drive based on a New Variable Gain PI Controller – 2008
63. Embedded Controlled Z Source Inverter Fed Induction Motor Drive – 2008
64. Estimation of travel time using fuzzy clustering method - 2008
65. Improving Speed Control of Induction Motors through Fuzzy-SMC-PI Control – 2008
66. Instrumentation notes - Distributed measurement systems-A web system approach - 2008
67. Multi-Input Fuzzy Logic Controller for Brushless DC Motor Drives – 2008
68. Modeling of Indoor power line for Substation monitoring using Broadband Power line Communications – 2008
69. Microcontroller based Standalone PV system for Wireless Sensor Node - 2008

70. Operational Analysis and Comparative Evaluation of Embedded Z-Source Inverters – 2008
71. Performance of an Industrial Data Communication Protocol on Ethernet Network – 2008
72. Smart Wireless Temperature Data Logger Using IEEE 802.15.4/ZigBee Protocol - 2008
73. Soft Switched AC-Link AC/AC and AC/DC Buck-Boost Converter – 2008
74. Software/hardware co-design of a vehicle trajectory monitoring system – 2008
75. Performance Evaluation of Bridgeless PFC Boost Rectifiers – 2007
76. Network Characteristics of Urban environments for Wireless BAN – 2007
77. Multibus Integration Design in Conveyor Control System – 2007
78. Fuzzy Logic Control for a Speed Control of Induction Motor using Space Vector Pulse Width Modulation – 2007
79. Fuzzy Logic Control of Induction Motor with Input Output Feedback Linearization – 2007
80. Improving the Power Density of the ZVS-SVM Controlled Three-Phase Boost PFC Converter – 2007
81. Replacing Cryptography with Ultra Wideband (UWB) Modulation in Secure RFID – 2007
82. A New Parameter for UWB Indoor Channel profile Identification – 2007
83. A Novel Soft-Switching Single-Phase AC-DC-AC Converter using New ZVS-PWM Strategy – 2007
84. A Practical Approach to Wireless GPRS On-Line Power Quality Monitoring System – 2007

85. Fault Detection in Internal Combustion Engines using Fuzzy Logic – 2007
86. A ZigBee-Based Power Monitoring System with Direct Load Control Capabilities – 2007
87. Accuracy, Fast-Response, Cost-Efficient Solar Cell Regulator Suitable for Low-Power Applications
88. Adaptive Neuro-Fuzzy Controller of Switched Reluctance Motor – 2007
89. Utilizing RFID Signaling Scheme for Localization of stationary Objects and Speed Estimation of Mobile Objects – 2007
90. Vibration Suppression using Single Neuron based PI Fuzzy Controller and Fractional Order Disturbance Observer – 2007
91. An Integrated Inverter for a Single-Phase Single-Stage Grid-Connected PV System based on Z-Source – 2007
92. Concurrent Relay-PID Control for Motor Position Servo Systems – 2007
93. The Dynamic Control of a Switched Reluctance Drive using Fuzzy Logic – 2006
94. A Review of Multilevel Power Converters – 2006
95. BLDC Motor Controlled using Resonant Pole Inverter with Variable Pulse Width Method – 2006
96. Applying Modified One-Comparator Counter based PWM Control Strategy to Flyback Converter – 2006
97. Direct ZVS Start-Up of a Current-Fed Resonant Inverter – 2006
98. High-Power-Factor Soft-Switched Boost Converter – 2006
99. Induction Motor Speed Control using Fuzzy Logic Controller – 2006

100. Power-Efficient Pulse Width Modulation DC/DC Converters with Zero Voltage Switching Control – 2006
101. An Alternative Configuration for Digitally Controlled Parallel Connected DC-DC Power Converters – 2005
102. Fuel Cell and Supercapacitors for Automotive Hybrid Electrical System – 2005
103. Fuzzy Logic Control of Vehicle Suspensions with Dry Friction Nonlinearity – 2005
104. Mobility and Power Budget for a Solar-Powered Polar Rover – 2005
105. Performance Analysis of a Fuzzy Logic based Rotor Resistance Estimator of an Indirect Vector Controlled Induction Motor Drive – 2005
106. Sensorless PM Motor with Multi Degree of Freedom Fuzzy control – 2005
107. Using Fuzzy Controller in Induction Motor Speed Control with Constant Flux – 2005
108. A Hybrid Controller Design and Implementation for Switched Reluctance Motor Drives – 2005
109. A Fuzzy Sliding Mode Controller for a Field-Oriented Induction Motor Drive – 2005
110. A Novel Dc-DC Full-Bridge Converter using Energy-Recovery Circuit with Regenerative Transformer – 2005
111. Development of Fuzzy Sliding Mode Controller for Decoupled Induction Motor Drive
112. Digital PWM Controller and Current estimator for a Low-Power Switching Converter
113. Feeder Automation within the Scope of Substation Automation
114. Fuzzy Adaptive Control of an Induction motor Drive

115. Fuzzy Modelling: and Control of Marine Diesel Engine Process
116. High Efficiency Flyback Converter using Synchronous Rectification
117. High Robustness and Reliability of Fuzzy Logic based Position Estimation for Sensorless Switched Reluctance Motor Drives

118. Oil Well Diagnosis by Sensing Terminal Characteristics of the Induction Motor
119. Optically-Powered Wireless Transmitter for High-Temperature MEMS Sensing and Communications
120. Optimal control of Three-Phase PWM Inverter for UPS Systems
121. Performance Analysis of an Active Energy Induction Meter using an Innovative Approach
122. Power Factor Improvement of Single Phase AC Voltage Controller Employing Extinction Angle Control Technique
123. Proposal of Human-Friendly Motion Control
124. Real-Time DC Motor Position Control by Fuzzy Logic and PID Controllers using Labview
125. Remote Control of an Ultrasonic Motor by using a GSM Mobile Phone
126. Remote Monitoring System for Transformer Substations
127. Robust Control of a Speed Sensorless Permanent Magnet Synchronous Motor Drive
128. Robust Speed Control of an Indirect Field-Oriented Induction Machine Drive using Fuzzy Logic Control
129. Scalar Speed Control of a DQ Induction Motor Model using Fuzzy logic Controller

- 130. Super-Twisting Sliding Mode Control for Unified Power Flow Controller In Power Systems - IEEE
- 131. The Adaptive Space Vector PWM for Four Switch Three Phase Inverter Fed Induction Motor with DC – Link Voltage Imbalance - IEEE
- 132. A Comparison of Voltage-Mode soft-Switching methods for PWM Converters
- 133. A Fault-Tolerant Control Architecture for Induction Motor Drives in Automotive Applications
- 134. A New Approach to ANN-Based Real Time Voltage Stability Monitoring and Reactive Power Management – IEEE
- 135. A New Soft-Switched Contactless Battery Charger with Robust Local Controllers
- 136. A New Visualization Concept for Navigation Systems
- 137. A Novel Resonant Transition Push-Pull DC-Dc Converter
- 138. A Real Time Precrash Vehicle Detection System
- 139. A Simple Control Scheme for Single-Phase Shunt Active Power with Fuzzy Logic based DC Bus Voltage Controller –
- 140. A Three-Level DC-Dc Converter with Wide-Input Voltage Operations for Ship-Electric-Power-Distribution Systems
- 141. A Three-Level Single-Phase single-Stage Soft-Switched AC-DC Converter
- 142. Comparison of Traditional Inverters and Z-Source Inverter for Fuel Cell Vehicle Applications
- 143. **any Domain / any Application can be Implemented**

Do you have any Innovative / Challenging Projects or Concepts needs to be Developed, We are here to do it

NCCT
www.ncct
.in

EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

GSM & GPS PROJECTS

Design of a Water Environment Monitoring System Based on Wireless Sensor Network Gateway Based on ZigBee and GPRS - 2009

Design & Development of a GSM Based Vehicle Theft Control System - 2009

A Low-Cost Solution for an Integrated Multi sensor Lane Departure Warning System - 2009

Body Temperature and Electrocardiogram Monitoring Using an SMS-based Telemedicine System - 2009

Travel time prediction under heterogeneous traffic conditions using global positioning system data from buses - 2009

Cost Effective GPS-GPRS based Object Tracking System - 2009

Mobile Messaging Services-Based Personal Electrocardiogram Monitoring System - 2009

Design of Water Environment Monitoring System based on Wireless Sensor & GSM - 2009

IMM-Based Lane-Change Prediction in Highways with Low-Cost GPS/INS - 2009

An On-line Monitoring System of Temperature of Conductors and Fittings Based on GSM SMS and Zigbee - 2008

GPS-based Vehicle Tracking System-on-Chip - 2008

A Distributed Measurement System to Estimate Plant Water Content in Agricultural Fields based on Wireless Sensor Networks - 2008

GSM / GPRS based Wireless Motion Detection System using PIR Sensor - 2008

Remote Data Capture, Acquisition and Sending SMS to Remote Mobile - 2008

GSM based Secured ATM Banking - 2008

Remote Sensing & Control of an Irrigation System using A distributed Wireless Sensor Network - 2008

Patient Monitoring using GSM & Zigbee for Hospitals & Old age Homes - 2008

A wireless network based on the combination of Zigbee and GPRS - 2008

A GIS-based Dynamic Shortest Path Determination in Emergency Vehicles - 2008

Micro-Controller based Remote Monitoring using Mobile through Spoken Commands - 2008

A Low Cost GSM/GPRS based Wireless Home Security System - 2008

Mobile Hacking Prevention and Theft Detection using GSM & GPS Technology - 2008

Efficient Cost-Based Tracking of Scheduled Vehicle Journeys - 2008

Development of pedestrian-to-vehicle communication system prototype for pedestrian safety using both wide-area and direct communication - 2008

INSTRUMENTATION

PROJECTS

Capacitance and Inductance Sensor Circuits for Detecting the Lengths of Open- and Short-Circuited Wires - 2009

A Single-Chip CMOS Smoke and Temperature Sensor for an Intelligent Fire Detector - 2009

An Internet-Based Interactive Embedded Data-Acquisition System for Real-Time Applications - 2009

Robust Sensor-Based Navigation for Mobile Robots - 2009

Application of Zigbee for Pollution Monitoring Caused by Automobile Exhaust Gases - 2009

A Zigbee wireless sensor network compliant with the IEEE1451 standard - 2009

Low-cost, smart temperature sensors systems based on Universal Frequency-to-Digital Converter - 2009

Wireless sensor networks for industrial processes - 2009

Design of a Water Environment Monitoring System Based on Wireless Sensor - 2009

Multisensor data fusion methods for petroleum engineering applications - 2009

Multisensor Strategies to Assist Blind People: A Clear-Path Indicator

Performance of a Protected Wireless Sensor Network in a Fire. Analysis of Fire Spread and Data Transmission - 2009

Passive and Self-Powered Autonomous Sensors for Remote Measurements - 2009

A Novel Vehicle Safety Model Vehicle speed Controller under Driver Fatigue - 2009

Mobile Messaging Services-Based Personal Electrocardiogram Monitoring System - 2009

Cost Effective GPS-GPRS based Object Tracking System - 2009

Web-Based Caregiver Monitoring System for Assisting Visually Impaired People - 2009

IMM Based Lane-Change Prediction in Highways with Low-Cost GPS INS - 2009

Defect Prevention and Detection in Software for Automated Test Equipment - 2008

Internet-Enabled Calibration Services: Design of a Secure Calibration System - 2008

A safety critical network for distributed smart traffic signals - 2008

Instrumentation notes - Distributed measurement systems-A web system approach - 2008

A Scalable and Efficient Approach for Obtaining Measurements in CAN-Based Control Systems - 2008

The measurement of oxygen saturation in arterial and venous blood - 2008

USB Sensor Network for Industrial Applications - 2008

A Distributed Measurement System to Estimate Plant Water Content in Agricultural Fields based on Wireless Sensor Networks - 2008

An Intelligent Mobile Robot Navigation Technique Using RFID Technology - 2008

Networked sensor monitoring using the universal IEEE 1451 Standard - 2008

Low-Cost and High Sensitive Microcontroller Based Data Acquisition System for Renewable Energy Sources - 2008

Design of an RFID-Based Battery-Free Programmable Sensing Platform - 2008

Development of Tilt and Vibration Measurement and Detection System using MEMS Accelerometer as a Sensor - 2008

Design of a Semi-Autonomous Parking Assist System - 2008

The Research and Development of the Highway's Electronic Toll Collection System - 2008

Intelligent Residential Security Alarm and Remote Control System Based On Single Chip Computer - 2008

Wireless Reprogramming of Vehicle Electronic Control Units - 2008

Architecture Model of Real-time Monitoring Service Based on Wireless Sensor Networks - 2008

Wireless Sludge Level Monitoring based on Bluetooth Sensing Nodes - 2008

Wireless Sensor Networks for Resources Tracking at Building Construction Sites - 2008

Smart Configurable Wireless Sensors and Actuators for Industrial Monitoring and Control - 2008

WIRELESS COMMUNICATION PROJECTS

1. Design of a Water Environment Monitoring System Based on Wireless Sensor Network Gateway Based on ZigBee and GPRS - 2009
2. Wireless Medical Interface using ZigBee and Bluetooth Technology - 2009
3. Smart Parking System using Image Processing Techniques in Wireless Sensor Networks - 2009
4. School Zone Safety System Based on Wireless Sensor Network - 2009
5. Preliminary Infrastructure Development for Greenhouse Accounting of Malaysian Rainforest Using Wireless - 2009
6. Wireless Sensor Networks in Home Care - 2009
7. Performance of a Protected Wireless Sensor Network in a Fire. Analysis of Fire Spread and Data Transmission - 2009
8. Parking Guidance System Utilizing Wireless Sensor Network and Ultrasonic Sensor - 2009
9. Security Management System for Oilfield Based on Embedded Wireless Communication - 2009
10. A Wireless Data Acquisition and Transmission System Design - 2009
11. Design and Assessment of an Online Passenger Information System for Integrated Multimodal Trip Planning - 2009
12. Applications of Short-Range Wireless Technologies to Industrial Automation: A Zigbee Approach - 2009
13. Electronic Nose Network System for Online Monitoring of Livestock Farm Odors - 2009

14. Research on ZigBee Wireless Sensors Network Based on ModBus Protocol - 2009
15. Wireless communications in networked robotics - 2009
16. Boarding School Students Monitoring Systems (E-ID) Using Radio Frequency Identification - 2009
17. A Low-Cost Wireless Sensor System and Its Application in Dental Retainers - 2009
18. Remote-controllable and energy-saving room architecture based on Zigbee communication - 2009
19. A Remote Compact Sensor for the Real-Time Monitoring of Human Heartbeat and Respiration Rate - 2009
20. A Portable Wireless Eye Movement-Controlled Human-Computer Interface for the Disabled - 2009
21. A Wireless-Implantable Micro system for Continuous Blood Glucose Monitoring - 2009
22. Development of Zigbee Mobile Router for Supporting Network Mobility in Healthcare System - 2009
23. Autonomous Networked Robots for the Establishment of Wireless Communication in Uncertain Emergency Response Scenarios - 2009
24. Car Park System A Review of Smart Parking System and its technology - 2009
25. A Novel Vehicle Safety Model Vehicle speed Controller under Driver Fatigue - 2009
26. A wireless network based on the combination of Zigbee and GPRS - 2008
27. Parking Guidance System Based on Wireless Sensor Network - 2008
28. A Remote-Control Engineering Laboratory - 2008

29. Smart Configurable Wireless Sensors and Actuators for Industrial Monitoring and Control - 2008
30. Performance of an Industrial Data Communication Protocol on Ethernet Network - 2008
31. Wireless Sensor Networks for Resources Tracking at Building Construction Sites - 2008
32. Wireless Sludge Level Monitoring based on Bluetooth Sensing Nodes - 2008
33. A Novel Automatic Utility Data Collection System using IEEE 802.15.4 – Compliant Wireless Mesh Networks - 2008
34. Wheelchair Type Biomedical System with Event-Recorder Function - 2008
35. Patient Monitoring using GSM and ZIGBEE for Hospitals and Old age Homes - 2008
36. Driving Guidance System Based on Wireless Sensor Network - 2008
37. Wireless Healthcare Monitoring System for Home - 2008
38. A wireless escape system for industrial accidents using Ad Hoc positioning - 2008
39. Wireless Reprogramming of Vehicle Electronic Control Units - 2008
40. Wireless Sensor Network for Wearable Physiological Monitoring - 2008
41. Remote Sensing and Control of an Irrigation System using a Distributed Wireless Sensor Network - 2008
42. Web based Personal Health Systems – Models and Specifics - 2008
43. Wireless Network for Measurement of Whole-Body Vibration - 2008
44. The Research and Development of the Highway's Electronic Toll Collection System - 2008

45. An Implementation of an Underground Wireless Sensor Network using Zigbee - 2008
46. Cooperative communications between vehicles and intelligent road signs - 2008
47. Automated Vehicles For Physically and Visually Challenged - 2008
48. Residential Security Alarm and Control System Based On Single Chip Computer - 2008
49. Architecture model of Real time monitoring Service based Wireless Sensor Network - 2008
50. Wireless Body Area Network in a Ubiquitous Healthcare System for Physiological Signal Monitoring and Health Consulting - 2008

GENERAL

1. A Path Following Control of an Unmanned Autonomous Forklift – 2009
2. A Novel Discrete Dimming Ballast for Linear Fluorescent Lamps – 2009
3. An Internet-Based Interactive Embedded Data-Acquisition System for Real-Time Applications - 2009
4. Bluetooth Data Acquisition System Based on ARM - 2009
5. Design and Development of ARM Processor based Web Server – 2009
6. Electronic Nose Network System for Online Monitoring of Livestock Farm Odors – 2009
7. Environmental identification based on changes in sensory information - 2009
8. Monitoring of an Aeroponic Greenhouse with a Sensor Network – 2009
9. Performance Analysis of Multimodal Biometric System Authentication – 2009
10. Preliminary Infrastructure Development for Greenhouse Accounting of Malaysian Rainforest using Wireless Sensor Network – 2009
11. Research on Embedded Data Display unit based on CAN Bus – 2009
12. Visual Receding Horizon Estimation for human presence detection - 2009
13. Security Management System for Oilfield Based on Embedded Wireless Communication - 2009
14. Stability Of Networked Control Systems with Uncertain Time-Varying Delays – 2009

15. Home Appliance Energy Monitoring and Controlling based on Power Line Communication – 2009
16. Context-Aware Wireless Sensor Networks for Assisted-Living and Residential Monitoring – 2008
17. A Low-Cost Intelligent Gas Sensing Device for Military Applications – 2008
18. A Clustered Real-Time Remote Monitoring System for Out-of-Hospital Cardiac Patients - 2008
19. A Phone for Human Activity Recognition using Triaxial Acceleration Sensor – 2008
20. A Simple Capacitive Security Card System - 2008
21. A wireless escape system for industrial accidents using Ad Hoc positioning – 2008
22. A tactile System for Informing the Blind on Direction of a Walk – 2008
23. A Wireless Network System for Automated Tracking of Construction Materials on Project Sites – 2008
24. A Distributed Remote Monitoring System based on ARM for Production Lines –2008
25. Networked sensor monitoring using the universal IEEE 1451 Standard – 2008
26. Micro-Controller based Remote Monitoring using Mobile through Spoken Commands – 2008
27. Real-Time, Automatic Animal Tracking using Direct Sequence Spread Spectrum – 2008
28. Robust and Accurate Surface Measurement Using Structured Light - 2008

29. Mobile Hacking Prevention and Theft Detection using GSM & GPS Technology - 2008
30. The measurement of oxygen saturation in arterial and venous blood - 2008
31. Train Auto Control System based on OSGi - 2008
32. USB Sensor Network for Industrial Applications - 2008
33. Wireless Sensor Networks for Resources Tracking at Building Construction Sites – 2008
34. Wireless Sludge Level Monitoring based on Bluetooth Sensing Nodes – 2008
35. Optimal sensor scheduling of sensors in a sensor network for mobile robot navigation - System Information & Control 2007
36. Towards Secure E-Elections in Turkey: Requirements & Principles, Availability, Reliability & Security, 2007
37. An Electronic Meter for Measuring the Saving in Electrical power – 2007
38. A Wireless Sensor Network Prototype for Environmental Monitoring in Greenhouses – 2007
39. Methods and Techniques for Intelligent Navigation and Manipulation for Bomb Disposal and Rescue Operations – 2007
40. Design, Implementation and Real-Time Digital Control of a Cart-Mounted Inverted Pendulum using Atmel AVR Microcontroller – 2007
41. Wireless Network based Tracking and Monitoring on Project Sites of Construction Materials – 2007
42. Smart Metering the Clouds - 2009
43. Automatic Power Meter Reading System using GSM Network - 2007
44. Design of an Intelligent SMS based Remote Metering System - 2007

45. Multibus Integration Design in Conveyor Control System - 2007
46. Ultra Low Power Wireless Weather Station - 2007
47. Vehicular Ad Hoc Networks toward Intelligent Transport Systems - 2007
48. Active-RFID System Accuracy & Its Implications for Clinical Applications - 2006
49. Agent-Based Offline Electronic Voting - Computer Software & Applications, - 2006
50. Home Security Robot based on Sensor Network - 2006
51. Multisensor Based Security Robot System for Intelligent Building - Multisensor Fusion and Integration for Intelligent Systems - 2006
52. Online Detection and Classification of Disasters by a Multiple-input/single-output Sensor for a Home Security System - IEEE, Neural Networks - 2006
53. Personal identification & verification using multimodal biometric data - 2006
54. Future of Vehicle and Roadside Intelligent Transport Systems - Automotive Electronics - 2006
55. Voice Biometric Authentication for Enhancing Internet Service Security Technologies - 2006
56. Wearable, Cuff-less PPG-Based Blood Pressure Monitor with Novel Height Sensor, Engineering in Wireless Body Sensor Network – 2006
57. Wind energy and power system inertia - Power Engineering Society - 2006
58. Wireless Communication Technology Based on Bluetooth and Its Application to a Manipulator- 2006
59. Moth-Inspired Chemical Plume Tracing on an Autonomous Underwater Vehicle – 2006

60. RoboCupRescue – Robot league team IUB Rescue – 2006
61. Speech Recognition Board and Microphone – 2005
62. A vehicle anti-theft and alarm system based on computer vision - 2005
63. Design and implementation of a security and patrol robot system - Mechatronics and Automation - 2005
64. Fuzzy Trajectory Planning and Redundancy Resolution for a Fire Fighting Robot Operating in Tunnels - 2005
65. Optimal estimation techniques to reduce false alarms in railway obstacle detection, Industrial Technology - 2005
66. SELES: an e-voting system for medium scale online election - Computer Science - 2005
67. Voice operated intelligent wheelchair – VOIC, Industrial Electronics - 2005
68. Wireless Sensor Network based Smart Community Security Service – 2005
69. Wireless Sensor Networks for Monitoring of Large public Buildings – 2005
70. Design and Implementation of a Sensor Network System for Vehicle Tracking and Autonomous Interception – 2005
71. An Automated Test Equipment for calibration of Energy Meters
72. An Intelligent Decision Support System for Wastewater Treatment Plant Management
73. An Interface Converter with Reduced VA Ratings for Battery-Supercapacitor Mixed Systems
74. A lane tracking system for intelligent vehicle applications
75. A multi-purpose toll collection plaza model

76. A New Principle for Climbing Wheeled Robots: Serpentine Climbing with the Open WHEEL Platform
77. A traffic simulation model for the evaluation of toll station systems - Intelligent Transportation Systems
78. A wireless ECG system for continuous event recording and communication to a clinical alarm station - Engineering in Medicine and Biology
79. Autonomous parking carrier for intelligent vehicle - Intelligent Vehicles
80. Electronic toll collection based on vehicle-positioning system techniques - Networking, Sensing and Control
81. Energy saving with pump's AC adjustable speed drives
82. Expert System of Peritoneal Dialysis Scheme Design and Realization Based on Object-Oriented Technology
83. Fundamental research on human interface devices for physically handicapped persons – Ultrasonic Path Planning
84. Proposal for a world wide home security system using PC-cameras - The e-Vigilante Network Project
85. Step climbing using power assist wheel chair robot with inverse pendulum control
86. The application of modern GIS technology in the development of railway management systems
87. Vision-guided automatic parking for smart car - Intelligent Vehicles
88. ANN – Control System DC Motor
89. Automated Vehicle Control System
90. Autonomous Localization and Extraction of Books in a Library
91. Vision based Human Tracking and Activity Recognition

92. Using Personal electronic Device for Authentication based Service Access
93. Two Dimensional Magnetic and Thermal Analysis of High Speed Switched Reluctance Motor Using Soft Magnetic Composite Material - IEEE
94. Ubiquitous Mobile Access to Real-Time Patient Monitoring Data
95. Ubiquitous systems for Physical Movement Monitoring: Towards Understanding Collaborative Signal Processing
96. Vehicular Ad Hoc Networks toward Intelligent Transport Systems
97. Wireless Sensor Networks and applications: A Survey
98. Wireless Ad Hoc Discovery of Parking Meters
99. Design and Implementation of a Digital Controller for DC-to-DC Power Converters
100. Design and Implementation of a Teleautonomous Hummer
101. Design and initial In-Water Testing of Advanced Non-Linear Control Algorithms onto an Unmanned Underwater Vehicle (UUV)
102. Developing Vehicles for Future Transportation Systems: Challenges & Research Directions
103. Development of a Novel Instantaneous Speed Observer and its Application to the Power-Assisted Wheelchair Control
104. Distributed Control Applications within Sensor Networks
105. Electronic Control Units for Automotive Electrical Power Systems: Communication and Networks
106. eSeal – A System for Enhanced Electronic assertion of Authenticity and Integrity

Hybrid Electric Vehicle Design based on a Multi-Objective Optimization Evolutionary Algorithm

107. Hybrid Intelligence for Driver Assistance
108. Implementation of a VI-Based Multi-Axis Motion Control System for Automated Test and Measurement Applications – IEEE
109. Improving Patient Monitoring and Tracking in Emergency Response
110. Indoor Positioning and Navigation using WLAN Technology
111. Model Reference Linear Adaptive Control of DC Motor Using Fuzzy Controller – IEEE
112. Integrated Modeling and Analysis of Computer based Embedded Control System
113. Modeling of a Stair-Climbing Wheelchair mechanism with High Single Step Capability
114. Modelling Pedestrains using Artificial Neural Networks
115. Models for Bearing damage Detection in Induction Motors using Stator Current Monitoring
116. MyBus: Helping Bus Riders Make Informed Decisions
117. Neural Network Control Approach for an Industrial Furnace
118. Novel Skid Avoidance Method without Vehicle Chassis Speed for Electric Vehicle
119. Parking Space Inventory control: An Artificial Intelligence Approach
120. PdaDriver: A Handheld System for Remote Driving
121. Security in Automotive Bus Systems
122. Self-Trained Automated Parking System
123. Sensing of Car Environment at Low Speed Driving

124. SIAPAS: A Case Study on the Use of a GPS based Parking System
125. Energy Consumption of a Wireless Network Interface in an Ad Hoc Networking Environment
126. Real-time Navigation, Guidance, and Control of a UAV using Low-cost Sensors
127. The Smart Wheelchair Component System

NCCT

**www.ncct
.in**

**EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,**

**We are offering Wide
Range of Projects in
IEEE Domains
including Embedded
Microcontroller Kits,
Models**

Any IEEE & NON IEEE Projects in any
Domain / any Application can be
Implemented

Do you have any Innovative /
Challenging Projects or Concepts
needs to be Developed, We are
here to do it...

IEEE

DOMAINS

**IEEE TRANSACTIONS PROJECTS
ON**

**Automatic Control / Biomedical
Engineering / Broadcasting /
Communications / Consumer Electronics /**

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

NCCT

**www.ncct
.in**

**EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,**

**Control Systems / Energy Conversion /
Fuzzy Systems / Industrial Electronics /
Instrumentation and Measurement /
Intelligent Transportation Systems /
Power Electronics / Power Systems /
Robotics / VLSI Systems / Wireless
Communications / Microelectromechanical
Systems / Mechatronics**

PROJECTSUPPORTS& DELIVERABLES

- **Project Abstracts & IEEE Paper**
- **Project Block Diagram & Circuit Diagram**
- **Datasheets and Manuals**
- **PPT & Review Details Guidance**
- **Project Report Guidance**
- **Working Procedure & Screen Shots**

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891

NCCT

**www.ncct
.in**

**EMBEDDED SYSTEM PROJECTS
IEEE 2010-11, 2009, 2008, etc.,**

- **Materials & Reference Books in DVD**
- **Project Completion Certificate**

Why NCCT

Complete Guidance * On time

Completion * Excellent

Support

Multi platform Training *

Flexibility

NCCT , 109, 2nd Floor, Bombay Flats, Nungambakkam High Road
Nungambakkam, Chennai-34. Near Ganpat Hotel, Above IOB, Next to ICICI
www.ncct.in, www.ieeeprojects.net, ncctchennai@gmail.com
044-28235816, 98411 93224, 93801 02891