

Embedded system projects.

- **A Novel Vehicle Safety Model: Vehicle Speed Controller under Driver Fatigue – 2009**
- **A Portable Wireless Eye Movement-Controlled Human-Computer Interface for the Disabled - 2009**
- **A Low-Cost Solution for an Integrated Multisensor Lane Departure Warning System – 2009**
- **A Robust Eye Gaze Tracking Method based on a Virtual Eyeball Model – 2009**
- **Bus Detection Device for the Blind using Passive RFID Application – 2009**
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- **Providing Group Tour Guide by RFIDs and Wireless Sensor Networks – 2009**
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- **Real-Time Pedestrian Detection and Tracking at Nighttime for Driver-Assistance Systems – 2009**
- **A single-camera feature-based vision system for helicopter autonomous landing - 2009**
- **A Smart Car Control Model for Brake Comfort Based on Car Following - 2009**
- **A Single-Chip CMOS Smoke and Temperature Sensor for an Intelligent Fire Detector – 2009**

- **A Web Service-based Alarm Solution in a TeleCare System – 2009**
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- **Design and Implementation of Real Time Vehicle Tracking System – 2009**
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- **A Zigbee and Zigbee-to-IR Device Control Scheme for Single Media Multi Devices – 2009**
- **Application of Zigbee for Pollution Monitoring Caused by Automobile Exhaust Gases – 2009**
- **A Remote Compact Sensor for the Real-Time Monitoring of Human Heartbeat and Respiration Rate - 2009**
- **A Path Following Control of an Unmanned Autonomous Forklift – 2009**
- **A Modular Cost-Effective Mobile Robot Navigation System Using RFID Technology - 2009**
- **A multi-robot coordination system based on RFID technology – 2009**
- **A Fast Onboard Relative Positioning Module for Multi robot Systems – 2009**
- **A Low-Cost Wireless Sensor System and Its Application in Dental Retainers – 2009**
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- **A Novel Discrete Dimming Ballast for Linear Fluorescent Lamps – 2009**
- **An Internet-Based Interactive Embedded Data-Acquisition System for Real-Time Applications - 2009**
- **Assessment of Changes in Upper Airway Obstruction by Automatic Identification of Inspiratory Flow Limitation During Sleep - 2009**
- **Body Temperature and Electrocardiogram Monitoring Using an SMS-based Telemedicine System – 2009**
- **Bluetooth Data Acquisition System Based on ARM - 2009**
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- **Design and Development of ARM Processor based Web Server – 2009**
- **Design and Realization of Wireless Sensor Network Gateway Based on ZigBee and GPRS – 2009**
- **Design of Software Services for Computer-based Infection Control and Antibiotic Management in the Intensive Care Unit – 2009**
- **Development of Zigbee Mobile outer for Supporting Network Mobility in Healthcare System – 2009**
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- **Wireless Medical Interface using ZigBee and Bluetooth Technology - 2009**
- **Wireless communications in networked robotics – 2009**
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- **The Tire as an Intelligent Sensor – 2009**
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- **Electronic Nose Network System for Online Monitoring of Livestock Farm Odors – 2009**
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- **Humanoid tele operation system for space environments - 2009**
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- **Research on Embedded Data Display unit based on CAN Bus – 2009**
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- **Sleep and Wake Classification with ECG and Respiratory Effort Signals – 2009**
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- **Remote-Controllable and Energy-Saving Room Architecture based on ZigBee Communication – 2009**
- **Fuzzy Logic based Control of Variable Speed Induction Machine Wind Generation System – 2009**
- **New Power Quality Solutions Especially Designed for Industrial Applications – 2009**
- **Home Appliance Energy Monitoring and Controlling based on Power Line Communication – 2009**
- **Power Quality Monitoring Controlled Through Low-Cost Modules – 2009**
- **Load Shedding based Resource Management Techniques for RFID Data – 2009**
- **A Bridgeless PFC Boost Rectifier with Optimized Magnetic Utilization – 2009**
- **A Compensation Technique for Smooth Transitions in a Non Inverting Buck–Boost Converter – 2009**
- **A Fuzzy Logic based Supervisory Hierarchical Control Scheme for Real Time Pressure Control – 2009**
- **Z-Source Inverter for Power Conditioning and Utility Interface of Renewable Energy Sources – 2009**
- **A New PWM Strategy to Reduce the Inverter Input Current Ripples – 2009**
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- **A Study of New Techniques of Controlled PWM Inverters – 2009**
- **AI based Design of a Fuzzy Logic Scheme for Speed Control of Induction Motors using SVPWM Technique – 2009**
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- **Direct Yaw Moment Control of an In-Wheel-Motored Electric Vehicle based on Body Slip Angle Fuzzy Observer - 2009**

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- **Robust Control of DC Motor using Fuzzy Sliding Mode Control with PID Compensator – 2009**
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- **Single-Loop Current Sensor Less Control for Single-Phase Boost-Type SMR – 2009**
- **Single-Phase Multilevel Pwm Inverter Topologies Using Coupled Inductors – 2009**
- **Single-Stage Soft-Switching Converter with Boost Type of Active Clamp for Wide Input Voltage Ranges – 2009**
- **Space Vector Pulse Width Modulation based Speed Control of Induction Motor using Fuzzy PI Controller – 2009**
- **Speed-Sensorless, Adjustable-Speed Induction Motor Drive based on Dc Link Measurement – 2009**
- **An Enhanced parking lot service model using wireless sensor network - 2008**
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- **ASSIST – Automated System for Surgical Instrument and Sponge Tracking – 2008**
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- **Detection and Recognition of End-of-Speed-Limit and Supplementary Signs for Improved European Speed Limit Support – 2008**
- **Development of a Module based Platform for Mobile Robots – 2008**

- **Development of pedestrian-to-vehicle communication system prototype for pedestrian safety using both wide-area and direct communication – 2008**
- **Using RFID Technology to Develop an Attendance System and Avoid Traffic Congestion around Kindergartens – 2008**
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- **An On-line Monitoring System of Temperature of Conductors and Fittings Based on GSM SMS and Zigbee – 2008**
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- **An Implementation of an Underground Wireless Sensor Network using Zigbee – 2008**

- **An integrated Zigbee automation system: An energy saving solution – 2008**
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- **A Comparative Analysis of RFID Adoption in Retail & Manufacturing Sectors - 2008**
- **A Distributed Measurement System to Estimate Plant Water Content in Agricultural Fields based on Wireless Sensor Networks – 2008**
- **A novel robot system for surface inspection and diameter measurement of large size - 2008**
- **A Phone for Human Activity Recognition using Triaxial Acceleration Sensor – 2008**
- **A PORTABLE INTELLIGENT ECG MONITOR BASED ON WIRELESS INTERNET AND EMBEDDED SYSTEM TECHNOLOGY – 2008**
- **A safety critical network for distributed smart traffic signals – 2008**
- **A Simple Capacitive Security Card System - 2008**
- **A wireless escape system for industrial accidents using Ad Hoc positioning – 2008**
- **A tactile System for Informing the Blind on Direction of a Walk – 2008**
- **A task planner for a dual-arm robot: A geometric formulation - 2008**
- **A wireless network based on the combination of Zigbee and GPRS - 2008**
- **A Wireless Network System for Automated Tracking of Construction Materials on Project Sites – 2008**
- **A Distributed Remote Monitoring System based on ARM for Production Lines –2008**
- **A Methodology for Implementation the CPAC Approach to Path Tracking with Six-DOF Robotic Manipulators – 2008**
- **Design and Implementation of Home Automation System – 2008**

- **Design of an RFID-Based Battery-Free Programmable Sensing Platform – 2008**
- **Electronic Medical Record for Effective Patient Monitoring Database – 2008**
- **Efficient Cost-Based Tracking of Scheduled Vehicle Journeys – 2008**
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- **Dynamic Traffic Light Sequence Algorithm using RFID - 2008**
- **E-Inclusion Technologies for the Speech Handicapped – 2008**
- **Fingerprint Authentication System using a Low-Priced Webcam – 2008**
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- **Forest Fire Detection System based on a Zigbee Wireless Sensor Network – 2008**
- **Framework for Pervasive Health Monitoring – 2008**
- **GPS-based Vehicle Tracking System-on-Chip – 2008**
- **GSM based Secured ATM Banking - 2008**
- **GSM-based Notification Speed Detection for Monitoring Purposes - 2008**
- **GPS-Based Path Following Control for a Car-Like Wheeled Mobile Robot With Skidding and Slipping - 2008**
- **GSM / GPRS based Wireless Motion Detection System using PIR Sensor – 2008**
- **Hydraulic Simulation and Remote Control System of Field Robot – 2008**
- **Implementation Of a CAN-Based Multi Controller Digital Driving System for a Vehicle - 2008**
- **Implementation of Obstacle Avoidance and ZigBee Control Functions for Omni Directional Mobile Robot - 2008**
- **Indoor Autonomous Navigation of Blind Persons using RFID Sensing Robots – 2008**
- **Integration of RFID and Wireless Sensor Networks – 2008**
- **Integration of Terrestrial Laser Scanner for Ground Navigation in GPS-Challenged Environments – 2008**

- **Interactive Object Acquisition based on Robot Technology Middleware (RTM) for 3 – Axis Robot – 2008**
- **Location-based System for Mobile Devices using RFID – 2008 Networked sensor monitoring using the universal IEEE 1451 Standard – 2008**
- **Micro-Controller based Remote Monitoring using Mobile through Spoken Commands – 2008**
- **Measuring and Transmitting Vital Body Signs using MEMS Sensor - 2008**
- **Mobile Hacking Prevention and Theft Detection using GSM & GPS Technology - 2008**
- **Mobile Messaging Services based personal Electrocardiogram Monitoring System – 2008**
- **Mobile Web Server for Elderly People Monitoring - 2008**
- **Networked Wireless Meter Reading System based on Zigbee Technology - 2008**
- **Neural Network Based Efficient Knowledge Discovery in Hospital Databases Using RFID Technology - 2008**
- **Parking Guidance System Based on Wireless Sensor Network – 2008**
- **Path Planning Automated Guided Robot – 2008**
- **Patient Monitoring using GSM & Zigbee for Hospitals & Old age Homes – 2008**
- **PGS: Parking Guidance System based on Wireless Sensor Network – 2008**
- **Pinpointing the Place of Origin of a Cellular Phone Emergency Call Using Active RFID Tags - 2008**
- **Policy and Role based Mobile RFID User Privacy Data Management System– 2008**
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