

# Innovative M-Tech projects list

## IEEE 2012-13 papers

### Technologies:

1. ARM-7 TDMI - LPC-2148
2. Image Processing
3. MATLAB – Embedded
4. GPRS –Mobile internet
5. Touch screen.
6. Global Positioning System (GPS) technology.
7. GSM technology.
8. MMC/SD card with FAT-16 & FAT-32 file system
9. MEMS accelerometer.
10. RFID/ Smart card.
11. ROBOTICS.
12. Speech recognition.
13. Finger print recognition.
14. Controller Area Network (CAN) protocol.
15. RS-485.
16. Google Android mobile OS.
17. Bio – Medical Engineering.
18. Heartbeat sensor.
19. WiFi
20. Bluetooth technology.
21. RF Communication.
22. Zigbee.
23. Ethernet
24. USB interface
25. Digital Compass

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**Ameerpet:** A-8, 2<sup>nd</sup> floor, Eureka court, beside Image hospital, Ameerpet, HYDERABAD – 73.

**Dilsukhnagar:** 203, Sreemaan Rama Towers, Opp: Kalanikethan , Chaitanyapuri, Dilsukhnagar, Hyderabad-62.

**Santoshnagar:** Opp: Big Bazaar, Santoshnagar X-Roads, HYDERABAD – 59.

- SET-657.** Voice recognition based wireless home automation with intensity control – (2011)
- SET-604.** Design of Emergency Remote Security Monitoring and Control System Based on ARM – (2012)
- SET-434.** Design of a low cost helmet mounted dead reckoning navigation system.
- SET-466.** Autonomous Mobile Platform II with artificial intelligence using digital compass and GPS
- SET-641.** Genetic-Based Biometric Security System for Wireless Sensor-based Health Care Systems (2012)
- SET-419.** Solar Tracker Robot using Microcontroller. (2011)
- SET-377.** Universal remote controller with haptic interface for customer electronic devices(2011)
- SET-597.** A Reliable Transmission Protocol for ZigBee-Based Wireless Patient Monitoring (2012)
- SET-598.** Safety Benefits of Forward Collision Warning Brake Assist, and Autonomous Braking Systems in Rear-End Collisions (2012)
- SET-606.** Design of Intelligent Home Appliance Control System Based on ARM and ZigBee (2012)
- SET-607.** A WiFi based Smart Wireless Sensor Network for Monitoring an Agricultural Environment (2012)
- SET-628.** Creating Innovation with Systems Integration –Road and Vehicle Integrated Electric Transportation System (2012)
- SET-609.** Wireless Sensor Network Based Home Monitoring System for Wellness Determination of Elderly (2012)
- SET-631.** The Monitoring System design Of Harmful Gas inside Special Vehicle (2012)
- SET-632.** Wireless Black Box Using MEMS Accelerometer and GPS Tracking for Accidental Monitoring of Vehicles (2012)
- SET-18.** Touch screen based advanced menu display and Ordering System for Restaurants
- SET-638.** HAWK: An unmanned mini helicopter-based aerial wireless kit for localization (2012)
- SET-639.** Accelerometer-based Body Sensing for Healthy Aging (2012)
- SET-640.** An Indoor Navigation Approach to Aid the Physically Disabled People (2012)
- SET-642.** Fall Detection by Built-In Tri-Accelerometer of Smart phone (2012)
- SET-643.** A design of a prototypic Hand-Talk Assistive Technology for the Dumb
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- SET-644.** Embedded System Integrated Into a Wireless Sensor Network for Online Dynamic Torque and Efficiency Monitoring in Induction Motors **(2012)**
- SET-645.** Design and Implementation of Intelligent Energy Distribution Management with Photovoltaic System **(2012)**
- SET-627.** Field Variables Monitoring in real time (GPS, soil moisture, temperature) with Precision Farming Applications **(2012)**
- SET-629.** Aided Navigation Techniques for Indoor and Outdoor Unmanned Vehicles **(2012)**
- SET-630.** Issues and Challenges of Wireless Sensor Networks Localization in Emerging Applications – **(2012)**
- SET-594.** An Embedded Real-Time Finger-Vein Recognition System for Mobile Devices **(2012)**
- SET-595.** Wireless System for Monitoring and Real-Time Classification of Functional Activity **(2012)**
- SET-596.** Safe Driving Using Mobile Phone **(2012)**
- SET-647.** Selective Device Activation for Power Reduction in Accelerometer-Based Wearable Guidance Systems for the Blind **(2012)**
- SET-649.** A Distributed Wireless Body Area Network for Medical Supervision **(2012)**
- SET-648.** A Zigbee-Based Wearable Physiological Parameters Monitoring System **(2012)**
- SET-625.** Automatic ambulance rescue system **(2012)**
- SET-626.** Design of Concealed Alarm System Based on GSM **(2012)**
- SET-588.** Robot to rescue of a child in a borehole
- SET-589.** Risk Awareness System in Railway and Environment Control
- SET-590.** An Accelerometer-Based Digital Pen with a Trajectory Recognition Algorithm for Handwritten Digit and Gesture Recognition **(2012).**
- SET-591.** MEMS Accelerometer Based Nonspecific-User Hand Gesture Recognition **(2012)**
- SET-592.** Multisensor Railway Track Geometry Surveying System **(2012)**
- SET-593.** A Mixed Filtering Approach for Track Condition Monitoring Using Accelerometers on the Axle Box and Bogie **(2012)**
- SET-599.** A new collision warning system for lead vehicles in rear-end collisions **(2012)**
- SET-600.** Human Postures Recognition Based on D-S Evidence Theory and Multi-sensor Data Fusion
- SET-601.** Sensor and network technology for intelligent transportation systems **(2012)**

- SET-602.** A Novel Cost-Effective Portable Electronic Nose for Indoor-/In-Car Air Quality Monitoring (2012)
- SET-603.** Sensor Network Based Oilwell Health Monitoring and Intelligent Control (2012)
- SET-605.** Mobile application as a tool for urban traffic data collection and generation to Advanced Traveler Information Systems using Wi-Fi networks available in urban centers – (2012)
- SET-612.** A Low-Cost Hand Gesture Human-Computer Interaction System (2012)
- SET-613.** Using Cellular Automata on Recommendation Mechanism for Smart Parking in Vehicular Environments (2012)
- SET-614.** Overview for Solid Waste Bin Monitoring and Collection System
- SET-615.** A System for Mobile Assisted Living (2012)
- SET-616.** The domesticated robot: Design guidelines for assisting older adults to age in place. (2012)
- SET-617.** A Solution For Reallocating Public Bike Among Bike Stations (2012)
- SET-618.** Robot Navigation System with RFID and Sensors (2012)
- SET-619.** Low-Cost, High-Accuracy, State Estimation for Vehicle Collision Prevention System – (2012)
- SET-650.** Centralized Heart Rate Monitoring Telemetry System Using ZigBee Wireless Sensor Network (2012)
- SET-651.** Ultrasonic Spectacles and Waist-belt for Visually Impaired and Blind Person (2012)
- SET-621.** Robust Railway Crack Detection Scheme (RRCDS) using LED-LDR Assembly (2012)
- SET-636.** An RFID Electronic Tag based Automatic Vehicle Identification System for Traffic IOT Applications (2011)
- SET-637.** Design of Vehicle positioning System Based on ARM (2011)
- SET-608.** A Novel Light-Sensor-Based Information Transmission System for Indoor Positioning and Navigation (IEEE-2011)
- SET-611.** Design and Implementation of Intelligent Urban Irrigation System. (IEEE-2011)
- SET-582.** Implementation of Tire Pressure Monitoring System with Wireless Communication. (IEEE-2011)
- SET-652.** A Cardiac Signal Monitoring and Processing System. (IEEE-2011)
- SET-573.** An Intelligent Blind Rod and Navigation Platform Based on ZigBee Technology (IEEE-2011)

SET-575.RFID and GPRS based intelligent courier mailbox system with automatic delivery notification.