

Innovative Bio-medical Final projects list

- **SET-641**. Genetic-Based Biometric Security System for Wireless Sensor-based Health Care Systems **(2012)**
- **SET-597**. A Reliable Transmission Protocol for ZigBee-Based Wireless Patient Monitoring **(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-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
- **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-588.** Robot to rescue of a child in a borehole
- **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-600**. Human Postures Recognition Based on D-S Evidence Theory and Multi-sensor Data Fusion
- **SET-602**. A Novel Cost-Effective Portable Electronic Nose for Indoor-/In-Car Air Quality Monitoring **(2012)**
- SET-612. A Low-Cost Hand Gesture Human-Computer Interaction 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-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-494. MATLAB GUI controlled Home/Industrial Automation
- **SET-496**. Heart beat signal monitoring on PC using MATLAB.
- **SET-514**. Implementation of PC based Biological System
- SET-525. Biometric Voting Machine
- **SET-541**.Intruder Tracking Using Wireless Sensor Networks
- **SET-545**.RFID based blind navigation system with voice alert system
- **SET-549**.User independent voice commands based robot control with remote voice and image transmission
- **SET-550**. Zigbee based helmet design for coal mines
- SET-556. Advanced and Intelligent wheel chair control system for leg amputees using Joystick
- **SET-562**. Artificial vision systems for the blind using ultrasonic wave
- SET-563. Image based Calling system for heart beat patients with Heart beat monitoring
- SET-570. Warmer for Blood Infusion
- SET-573. An Intelligent Blind Rod and Navigation Platform
- SET-578. Embedded based Wireless Neuron-Muscular Stimulator with Intensity Control
- **SET-493.** Wireless Talking Touch Home
- **SET-486.** PC controlling wirelessly using tongue motion
- **SET-488.** Real-time pantry information system using ZigBee
- **SET-489.** Tongue driven speaking wheel chair with wireless device control
- **SET-462**. Design and construction of voice operated mobile phone for people with no hands.
- **SET-68.** Electronic eye-dial-up.
- **SET-469.** Tongue controlled speaking robot for paralyzed/physically handicapped persons.
- **SET-364.** Gestures controlled Intelligent Wheel chair with device switching
- **SET-368.** MEMS Accelerometer based Head movement controlled Firefight iRobot
- **SET-359**. Home Security with Voice Alerts & Virtual Keypad Authentication
- **SET-02.** Design and construction of MEMS based tilt operated touch free mobile phone useful for physically challenged/paralyzed persons.



- **SET-08.** Head movement based voice enabled wireless device switching for physically challenged
- **SET-09.** Touch screen and Zigbee based wireless communication assistant for Dumb and illiterates in Airlines
- **SET-346.** Wheel chair movement control using tongue
- **SET-386.** Wireless device switching using user independent voice commands for blind persons.
- SET-258. Obstacle Avoidance and Manhole detection Electronic travel aid Robot for blind
- **SET-191.** Voice actuated hospital bed control system and Heart Beat monitoring and alerting system
- SET-17. GPS and GSM based Real-time Human Health Monitoring and Alert System for Cardiac patients.

- SET-480. Design and development of mobile phone for multipurpose applications

 SET-460. Hand held device to control the device to co **SET-460.** Hand held device to control the home appliances and voice command announcements for dumb/Illiterates using one input pin of micro controller.
- **SET-459.** Stimulation of paralyzed muscle using IR with intensity varying features.
- SET-421. Pedestrian Navigation System with Fall Detection and Energy Expenditure Calculation.
- **SET-458.** Remote patient monitoring system with GPRS Sooxma website.
- **SET-435.** Advanced BMI Calculator with under and over weight alerts.
- **SET-423.** Computing Technology Used in Retrieval of Patient's Record.
- **SET-420.** Heart-rate analyzer on color GLCD using ARM cortex.
- **SET-440.** Activity monitoring system using Dynamic Time Warping for the elderly and disabled people.
- **SET-437.** Ethernet based medical parameters monitoring system.
- **SET-376.** Body movement recognition and alerting system based on Flex sensor
- **SET-372.** Wireless control of powered devices with tongue motion
- **SET-360.** Indoor wireless person tracking and voice enabled announcement system
- **SET-422**. Blood pressure blood glucose level monitoring on LCD.
- **SET-412.** WiFi based Wireless Heart rate monitoring and alerting system



- **SET-411.** Intensive Care Unit (ICU) patients monitoring system with immediate action in emergencies using speech recognition and Zigbee technologies
- SET-408. Hand talk using flex sensor
- **SET-405.** TV remote based Attender calling system
- SET-401. Speech recognition based Wheel chair with elevated features
- SET-400. RFID based patient data monitoring
- **SET-393.** RFID based bus name announcement system
- **SET-392.** Tongue controlled speaking micro controller
- **SET-389**. Highly sensitive ear
- **SET-388.**DTMF 3-phase irrigation Control with Feedback
- **SET-387.** I-Button & keypad based DC motor door lock system
- SET-384. Braille Reader
- **SET-383.** Development of vision system to a humanoid Robot
- **SET-382.** Contemporary traveling system with voice alert
- SET-380. MEMS based Step Counter.
- **SET-353.** Gesture controlled wireless spy Robo with video capture
- **SET-10.** Zigbee based wireless Voice to Text translator in Airlines/Hospital assistant system for blind/Illiterates.
- **SET-16.** Cardiac Sentinel: A smart GSM based embedded solution for continuous remote monitoring of cardiac patients.
- **SET-157.** Speech recognition based password enabled device switching for blind and physically challenged.
- **SET-159.** MEMS Accelerometer controlled PC.
- **SET-22.** Wearable Technology based secure access control system with motion based password.
- **SET-198.** Speech recognition based wheel chair operation and wireless home devices control system
- **SET-29.** Touch screen based wheel chair control system.
- **SET-30.** Image based password authentication for Illiterates with Touch screen.
- **SET-31.** Touch screen based Nurse/attendant calling system for physically impaired.
- **SET-32.** Touch screen based Digital Slate for next generation elementary school children.

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- **SET-596**. Safe Driving Using Mobile Phone **(2012)**
- **SET-59.** Medical parameters monitoring on live website www.sooxma.com.
- **SET-60.** Student data logging system into college website based on RFID.
- **SET-62.** GSM based school children security system based on RFID.
- **SET-165.** Gas leakage detector & auto dialing controller system
- **SET-75.** Home security System based on LPG gas, Smoke and Fire Sensors with SMS based alerts
- **SET-77.** GSM based digital Notice board with display on PC Monitor.
- **SET-78.** GSM based digital Notice board with display on Scrolling LED Display.
- SET-79. GSM based SCADA (Supervisory Control and Data Acquisition) implementation.
- **SET-85.** Microcontroller Based Thermometer and SMS based alerts.
- **SET-86.** Security Integrated system based on wireless access protocol for industrial applications with SMS alert system using GSM modem
- **SET-497**. Material handling robot controlling through wireless Zigbee from MATLAB.
- **SET-110.** RFID based animal tracking system.
- **SET-112. R**FID based medical information system.
- **SET-113.** Innovative Congestion Control System for Ambulance Using ZIGBEE
- **SET-121.** Wireless Heartbeat Monitoring and Alert system
- **SET-131.** Child/Blind tracking system & alerts to our hand held device.
- **SET-143.** ROBO leg for physically challenged.
- **SET-144.** Hand Gestures controlled Intelligent Wheelchair.
- **SET-198.** Speech recognition based wheel chair operation and wireless home devices control system
- **SET-96.** RFID and 2GB SD/MMC card based patient data monitoring system with PC interface.
- **SET-121.** Wireless Heartbeat Monitoring and Alert system.
- **SET-252**. Heart beat monitoring with display on LCD.
- **SET-93.** Microcontroller based Heartbeat Monitor with Display on pc.
- SET-193. Wireless touch screen based heartbeat monitoring of multiple patients



MEMS accelerometer projects

- **SET-08.** Head movement based voice enabled wireless device switching for physically challenged
- **SET-160.** Automatic fall detection and activity monitoring for elderly.
- **SET-200.** MEMS Accelerometer based digital photo frame with automatic position/view adjustment system (similar to digital cameras)
- **SET-02.** Design and construction of MEMS based tilt operated touch free mobile phone.
- SET-159. MEMS Accelerometer controlled PC.
- **SET-22.** Wearable Technology based secure access control system with motion based password.
- SET-230. Wearable technology for wireless gadgets control
- **SET-117.** Wireless vibration monitoring system of industrial equipments (Also useful for bridges monitoring).
- SET-139. MEMS Accelerometer based Hands Gesture controlled Robot
- **SET-145.** MEMS controlled robot with wireless video camera mounted on it.
- SET-144. Hand Gestures controlled Intelligent Wheelchair.
- **SET-152.** Micro Electro Mechanical Sensor (MEMS) Accelerometer based self-balancing robot.
- **SET-200.** MEMS Accelerometer based digital photo frame with automatic position/view adjustment system (similar to digital cameras)