



**St. Joseph's Institute of Technology**  
**St. Joseph's Group of Institutions**  
OMR, Chennai - 119



**Department of Electronics and Communication Engineering**  
(Accredited by NBA)

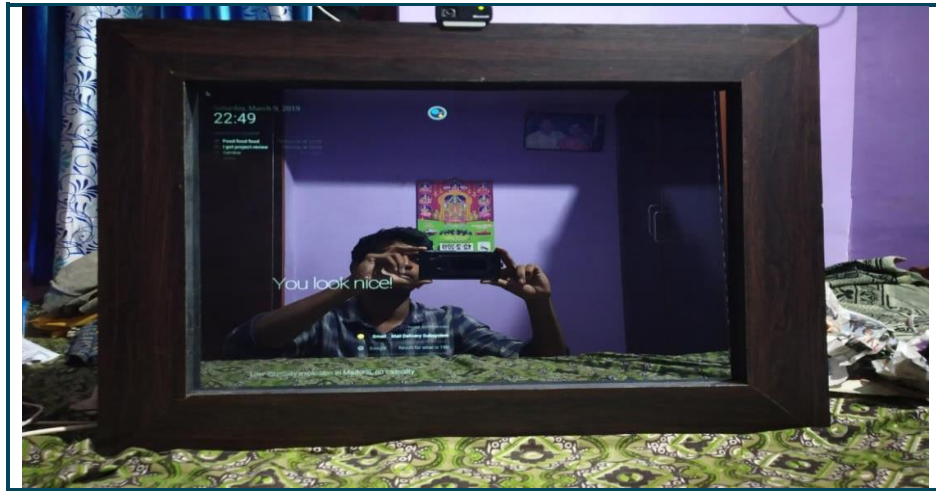
**Innovation**

**Research Models**

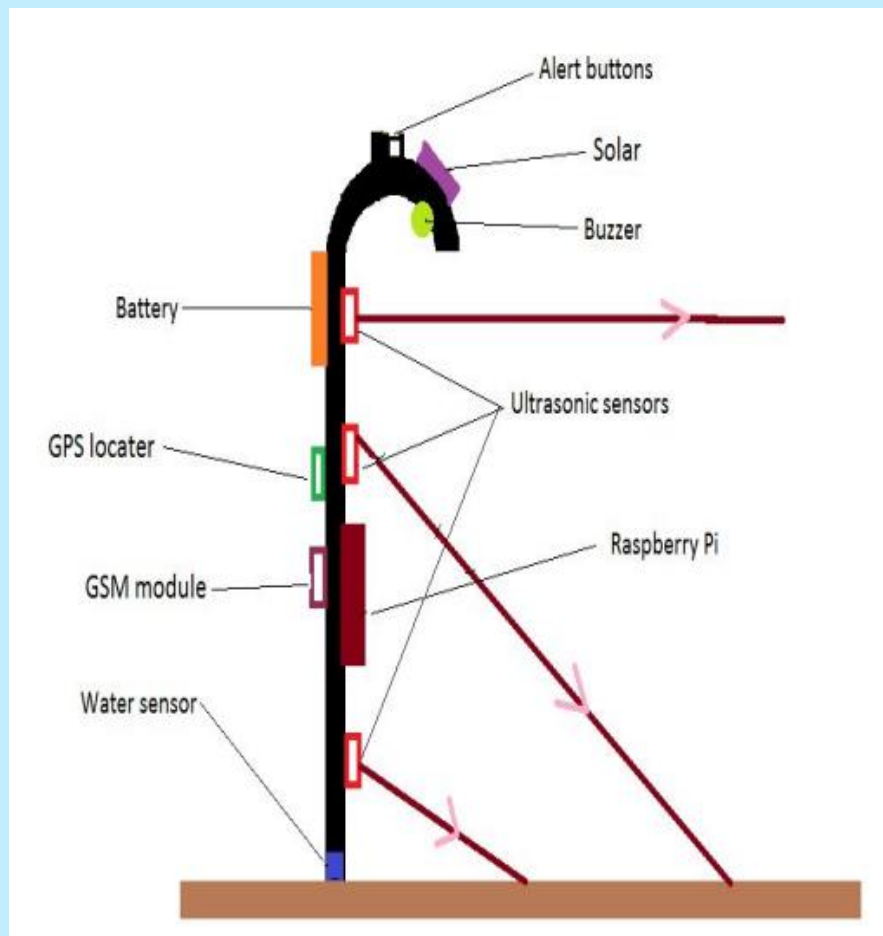
S.No	Subject
1	Design and Development of Smart Mirror using Raspberry Pi
2	Ultrasonic Blind Walking Intelligent Stick
3	Smart Kitchen with Inventory Monitoring and Management using IoT
4	Retro-Fit Solution for Bed side Monitoring system
5	Accident Prevention using Drowsy Sensor
6	Digital Image Falsification Detection System for Effective Communication
7	Design and Development of Bidirectional Array
8	Design of UWB 4 X 4 Antenna Array for Cancer Detection
9	Design of Fool Proof Centralized Voting Machine
10	Development of ARM Cortex M4 Board
11	Development of DSP 6745 Board
12	Multi-View Point GPU Accelerated Offline Object Tracking
13	Smart Bag
14	Energy Harvesting in railway tunnels and traffic

**1.SMART MIRROR**





## 2. Ultrasonic Blind Walking Intelligent Stick



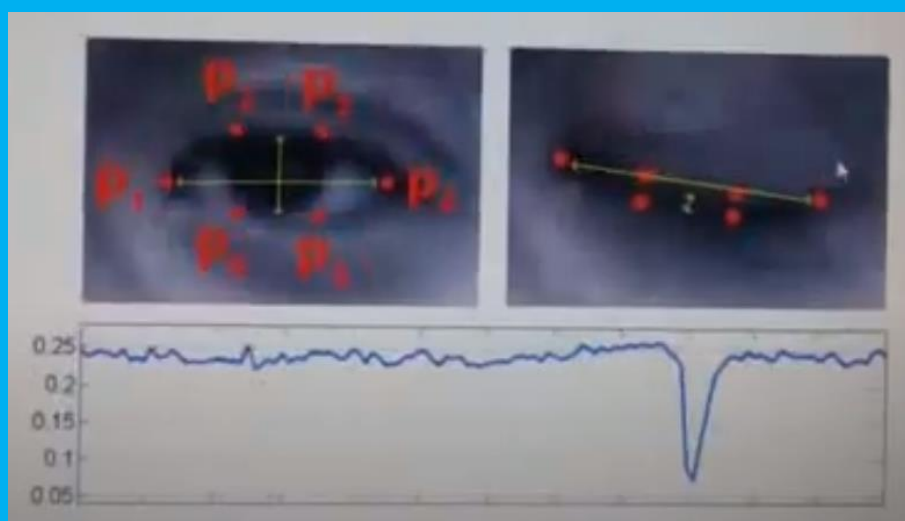
### 3. Smart Kitchen with Inventory Monitoring and Management using IoT



### 4. Retro-Fit Solution for Bed side Monitoring system

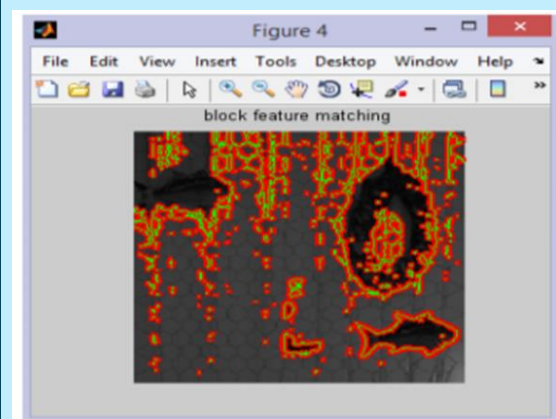
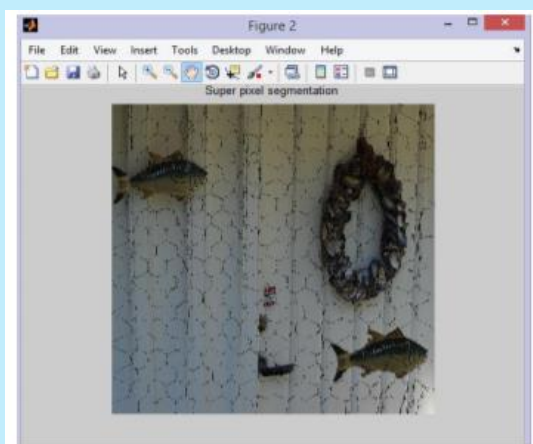


### 5. Accident Prevention using Drowsy Sensor

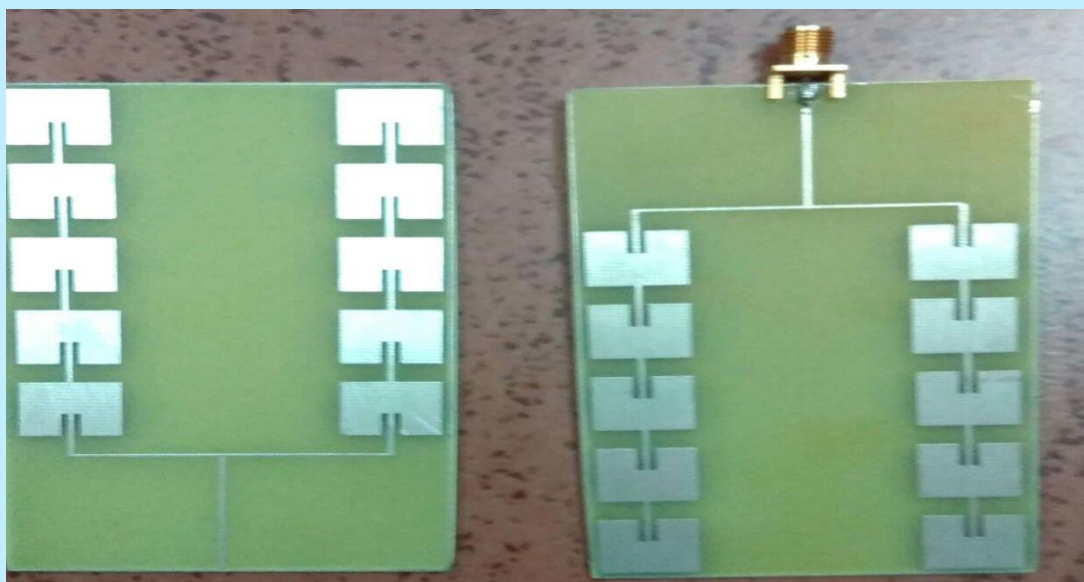




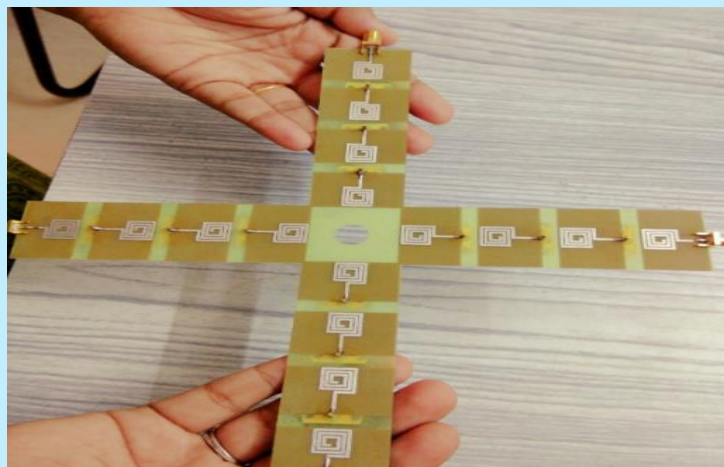
## 6. Digital Image Falsification Detection System for Effective Communication



## 7. Design and Development of Bidirectional Array



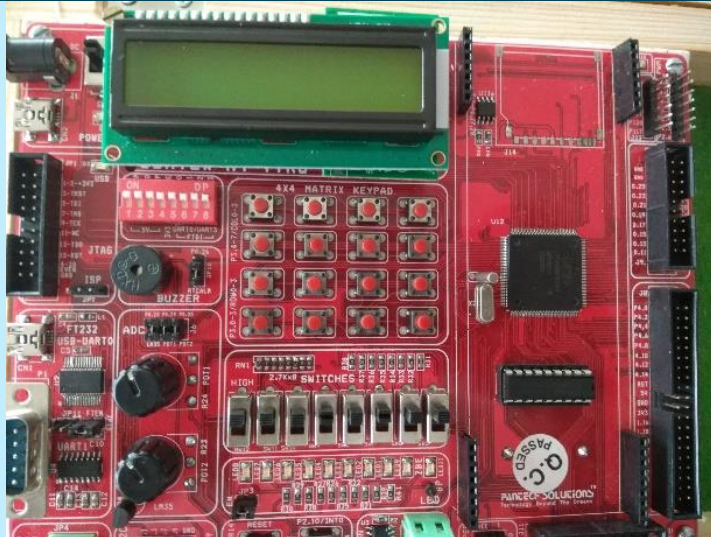
## 8. Design of UWB 4 X 4 Antenna Array for Cancer Detection



## 9. Design of Fool Proof Centralized Voting Machine



## 10. Development of ARM Cortex M4 Board



## 11. Development of DSP 6745 Board



## 12. Multi-View Point GPU Accelerated Offline Object Tracking



## 13. Smart Bag

