

I-Tech System, Nasik

IEEE 2017 – 2018 Embedded Project List

S.N O	Project Titles	Environment	Year
1	A System for Monitoring Hand Hygiene Compliance based-on Internet-of-Things	INTERNET OF THINGS (IOT)	2017
2	Agricultural Crop Monitoring using IOT- A Study	INTERNET OF THINGS (IOT)	2017
3	An Autonomous Wireless Body Area Network Implementation Towards IoT Connected Healthcare Applications	INTERNET OF THINGS (IOT)	2017
4	Analysis of Three IoT-Based Wireless Sensors for Environmental Monitoring	INTERNET OF THINGS (IOT)	2017
5	Child Safety Wearable Device	INTERNET OF THINGS (IOT)	2017
6	Connecting physical <i>things</i> to a SmartCity-OS	INTERNET OF THINGS (IOT)	2017
7	Decentralized Configuration of Embedded Web Services for Smart Home Applications	INTERNET OF THINGS (IOT)	2017
8	Design of Online Monitoring Device for COD Parameter in Industrial Sewage Based on Soft Measurement Method	INTERNET OF THINGS (IOT)	2017
9	Developing Portable Instrument Based on Internet of Things for Air Quality Information System	INTERNET OF THINGS (IOT)	2017
10	Efficient Low Cost Supervisory System for Internet of Things Enabled Smart Home	INTERNET OF THINGS (IOT)	2017
11	EMACS: Design and Implementation of Indoor Environment Monitoring and Control System	INTERNET OF THINGS (IOT)	2017
12	Energy Autonomous Wireless Valve Leakage Monitoring System With Acoustic Emission Sensor	INTERNET OF THINGS (IOT)	2017
13	First step towards an IoT implementation of a wireless sensors network for environmental radiation monitoring	INTERNET OF THINGS (IOT)	2017
14	Health Care Monitoring System in Internet of Things (IoT) by Using RFID	INTERNET OF THINGS (IOT)	2017

15	Internet-of-things based Smart Tracking	INTERNET OF THINGS (IOT)	2017
16	Real-Time Signal Quality-Aware ECG Telemetry System for IoT-Based Health Care Monitoring	INTERNET OF THINGS (IOT)	2017
17	Room Temperature Control and Fire Alarm/Suppression IoT Service Using MQTT on AWS	INTERNET OF THINGS (IOT)	2017
18	We-Care: An IoT-based Health Care System for Elderly People	INTERNET OF THINGS (IOT)	2017
19	Worldwide Auto-mobi: Arduino IoT Home Automation System for IR Devices	INTERNET OF THINGS (IOT)	2017
20	A Low Cost Automated Fluid Control Device using Smart Phone for Medical Application	EMBEDDED WITH ANDROID	2017
21	Data Monitoring and Hardware Control for App Android by Bluetooth Communication for Laboratory Teaching in Electrical Engineering Courses	EMBEDDED WITH ANDROID	2017
22	Design of Smart Neonatal Health Monitoring System using Sensor Mobile Cloud Computing	EMBEDDED WITH ANDROID	2017
23	Mining Human Activity Patterns from Smart Home Big Data for Healthcare Applications	EMBEDDED WITH ANDROID	2017
24	Real-time Traffic Light Recognition Based on Smart Phone Platforms	EMBEDDED WITH ANDROID	2017
25	A Real Time Street Lighting Control System	EMBEDDED	2017
26	A Two-level Traffic Light Control Strategy for Preventing Incident-Based Urban Traffic Congestion	EMBEDDED	2017
27	A Unified Framework for Vehicle Rerouting and Traffic Light Control to Reduce Traffic Congestion	EMBEDDED	2017
28	Automatic Detection of Red Light Running Using Vehicular Cameras	EMBEDDED	2017
29	Body and Fall Detection System with Heart Rate Monitoring	EMBEDDED	2017
30	Design and Implementation of Low Cost ECG Monitoring System for the Patient using Smart Device	EMBEDDED	2017
31	Economic Feasibility Of Solar Powered Street Lighting System In Libya	EMBEDDED	2017
32	Handover in Outdoor Visible Light Communication System	EMBEDDED	2017

33	Intelligent Home Automation System using BitVoicer	EMBEDDED	2017
34	LED Projection Module Enables a Vehicle to Communicate with Pedestrians and Other Vehicles	EMBEDDED	2017
35	On Detecting Acceptable Air Contamination in Classrooms using Low Cost Sensors	EMBEDDED	2017
36	Reverse Engineering the Communications Protocol of an RFID Public Transportation Card	EMBEDDED	2017
37	RFID-Based Attendance Management System	EMBEDDED	2017
38	Syncretic Use of Smart Meters for Power Quality Monitoring in Emerging Networks	EMBEDDED	2017
39	Towards Intelligent Arabic Text-to-Speech Application for Disabled People	EMBEDDED	2017
40	Tuning of a Stigmergy-based Traffic Light Controller as a Dynamic Optimization Problem	EMBEDDED	2017
41	Wheel Therapy Chair: A smart system for disabled person with therapy facility	EMBEDDED	2017
42	Anti-theft Protection of Vehicle by GSM & GPS with Fingerprint Verification	BIOMETRIC	2017
43	Design and Implementation of a Fingerprint Based Lock System for Shared Access	BIOMETRIC	2017
44	Flexible Microdisplacement Sensor for Wearable/Implantable Biomedical Applications	BIOMETRIC	2017
45	Indoor Localization Framework with WiFi Fingerprinting	BIOMETRIC	2017
46	SecureHouse: A Home Security System Based on Smartphone Sensors	BIOMETRIC	2017
47	An Android Based Human Computer Interactive System with Motion Recognition and Voice Command Activation	ROBOTICS	2017
48	Low-Cost, Real-Time Obstacle Avoidance for Mobile Robots	ROBOTICS	2017
49	Mine Detecting Robot Prototyping	ROBOTICS	2017
50	Mobile Quad-Controlled Wireless Robotic Arm	ROBOTICS	2017
51	Robotic Testing of Mobile Apps for Truly Black-Box Automation	ROBOTICS	2017

52	A Real-Time Flood Alert System for Parking Lots	WIRELESS	2017
53	A Smart Meter Design and Implementation Using ZigBee Based Wireless Sensor Network in Smart Grid	WIRELESS	2017
54	A Study of the Mesh Topology in a ZigBee Network for Home Automation Applications	WIRELESS	2017
55	Design and Implementation of Real Time Transformer Health Monitoring System Using GSM Technology	WIRELESS	2017
56	E-health Acquisition, Transmission &Monitoring System	WIRELESS	2017
57	Electrical Appliances Control Prototype by Using GSM Module and Arduino	WIRELESS	2017
58	Energy-Efficient Localization and Tracking of Mobile Devices in Wireless Sensor Networks	WIRELESS	2017
59	Improvement in Multiple Access Channel Allocation for Sensor Node Configuration Based on RFID Communication	WIRELESS	2017
60	Lightweight Mashup Middleware for Coal Mine Safety Monitoring and Control Automation	WIRELESS	2017
61	Microcontroller based Digital Meter with Alert System using GSM	WIRELESS	2017
62	Realization of a Smart Plug device based on Wi-Fi technology for use in Home Automation systems	WIRELESS	2017