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|  | **EMBEDDED MAJOR PROJECT LIST (2019-20)** |
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|  | **IOT BASED APPLICATIONS** |
| 1 |  IOT BASED SMART STREET LAMP (SSL) CONTROL SYSTEM.  |
| 2 | AN AUTOMATED LOW COST IOT BASED FERTILIZER INTIMATION SYSTEM FORSMART AGRICULTUR. |
| 3 | TOWARDS THE IMPLEMENTATION OF IOT FOR ENVIRONMENTAL CONDITION MONITORING INHOMES  |
|  4 | AUTOMATED IRRIGATION SYSTEM USING A WIRELESS SENSOR NETWORK AND GPRS MODULE  |
| 5 | LAST-METER SMART GRID EMBEDDED IN AN INTERNET-OF-THINGS PLATFORM |
|  6 | IOT BASED OCCUPANCY MONITORING TECHNIQUES FOR ENERGY EFFICIENT SMART BUILDINGS |
|  7 | APPLICATION OF RFID TECHNOLOGY AND THE MAXIMUM SPANNING TREE ALGORITHM FOR SOLVING VEHICLE EMISSIONS IN CITIES ON INTERNET OF THINGS |
| 8 | AN IOT BASED FIRE ALARMING AND AUTHENTICATION SYSTEM FOR WORKHOUSE |
| 9 | IOT BASED VEHICLE PARKING MANAGER |
|  10 | ADVANCED IOT BASED COMBINED REMOTE HEALTH MONITORING, HOME AUTOMATION AND ALARM SYSTEM |
| 11 | A ROBUST SECURITY FRAMEWORK FOR CLOUD-BASED LOGISTICS SERVICES |
| 12 | A SUPERVISED INTRUSION DETECTION SYSTEM FOR SMART HOME IOT DEVICES |
| 13 | [FOREST FIRE ALERTING SYSTEM WITH GPS CO-ORDINATES USING IOT](http://www.irisprojects.com/ieee-2019-2020-projects-on-iot/#ac_2945_collapse3) |
|  14 | IOT BASED WASTE BINS MONITORING SYSTEM IN SMART CITYES. |
| 15 | [IOT BASED ELECTRICAL DEVICE SURVEILLANCE AND CONTROL SYSTEM](http://www.irisprojects.com/ieee-2019-2020-project-titles-on-raspberry-pi/#ac_2951_collapse4) |
| 16 | [POWER THEFT IDENTIFICATION SYSTEMUSING IOT](http://www.irisprojects.com/ieee-2019-2020-project-titles-on-raspberry-pi/#ac_2951_collapse6) |
| 17 | IOT BASED SCHOOL CHILDREN TRANSPORTATION SYSTEM |
| 18 | THE DESIGN AND IMPLEMENTATION OF GPS CONTROLLED ENVIRONMENT MONITORINGROBOTIC SYSTEM BASED ON IOT AND ARM. |
|  | WOMEN SAFETY BASED PROJECT |
| 19 | [A NOVEL APPROACH TO PROVIDE PROTECTION FOR WOMEN BY USING SMART SECURITY DEVICE](http://www.irisprojects.com/ieee-2018-2019-project-titles-on-women-safety/#ac_2505_collapse1) |
|  20 | [AN IOT BASED MULTI-PARAMETER DATA ACQUISITION SYSTEM FOR EFFICIENT BIO- TELEMONITORING OF PREGNANT WOMEN AT HOME](http://www.irisprojects.com/ieee-2018-2019-project-titles-on-women-safety/#ac_2505_collapse2) |
|  | EMAIL BASED SECURITY APPLICATIONS |
| 21 | A WOMEN SAFETY PORTABLE HIDDEN CAMERA DETECTOR |
| 22 | FLOOR BASED SENSORS WALK IDENTIFICATION SYSTEM IN SHOPPING MALL SECURITY SYSTEM IN SMART CITYES  |
| 23 | DESIGN AND IMPLEMENTATION OF WOMEN AUSPICE SYSTEM BY UTILIZING GPS, GSM AND EMAIL COMMUNICATION |
| 24 | ANTI THEFT PROTECTION OF VEHICLE BY USING FINGERPRINT VERIFICATION AND EMAIL |
| 25 | REALTIME MONITORING SECURITY SYSTEM INTEGRATED WITH EMAIL COMMUNICATION |
| 26 | ATM THEFT DETECTION USING SENSORS AND EMAIL COMMUNICATION |
|  | RED TACTION BASED APPLICATION |
| 27 | MEASUREMENT AND ANALYSIS OF ELECTRIC SIGNAL TRANSMISSION USING HUMAN BODY AS MEDIUM FOR WBAN APPLICATIONS |
| 28 | A FRAMEWORK FOR THE DESIGN OF COST-EFFECTIVE WIRELESS BODY AREA NETWORKS  WITH EFFICIENT DATA COLLECTION |
| 29 | WSN BASED BAN (BODY AREA NETWORK) BASED ALERTING SYSTEM FOR EALDERLY PEOPLE. |
| 30 | DESIGN OF A TELE MEDICINE REMAINDER SYSTEM |
|  |  **CAMERA VESION BASED APPLICATIONS** |
| 31 | DRIVER GAZE TRACKING AND EYES OFF THE ROAD DETECTION SYSTEM |
| 32 | DEEP REPRESENTATIONS FOR FACE AND FINGERPRINT SPOOFING DETECTION |
| 33 |  FACE RECOGNIZATION SYSTEM BASED CAR SECURITY SYSTEM |
| 34 | INTEGRATION OF FACE RECOGNITION TO ACCESS THE DOOR |
| 35 | IRIS BIOMETRIC CONTROLLED SMART BANKING MACHINE EMBEDDED WITH GSM TECHNOLOGY FOR OTP |
| 36 | CAMERA VISION BASED RODE MONITORING ALERT SYSTEM TO DRIVER |
| 37 | TRAFFIC SIGNAL (RED & GREEN) RECOGNIZATION AND ALERT SYSTEM FOR DRIVERS |
|  | GSM/GPS BASED PROJECTS |
| 38 | CHILD ACTIVITY RECOGNITION SYSTEM |
| 39 | A CAR SECURITY SYSTEM BASED ON GSM AND GPS |
| 40 | ELDERLY FALL DETECTION AND LOCATION TRACKING SYSTEM USING HETEROGENEOUS WIRELESS NETWORKS |
| 41 | AN AUTOMATIC DRIVER DROWSINESS ALERT SYSTEM BY USING GSM |
| 42 | INTELLIGENT SAFETY INFORMATION GATHERING SYSTEM USING A SMART BLACKBOX |
| 43 | A WIRELESS SYSTEM TOWARDS GAIT DETECTION IN STROKE PATIENTS |
| 44 | INTELLIGENT HOME SECURITY SYSTEM IN HAN IN SMART CITYES |
| 45 | A NOVEL APPROACH TO DESIGN A STOLEN VEHICLES DETECTION IN TRAFFIC JUNCTIONS |
| 46 | DRIVER GAZE TRACKING AND EYES OFF THE ROAD DETECTION SYSTEM |
|  | WIRELESS COMMUNICATION BASED PROJECTS |
|  47 | IMPLEMENTING INTELLIGENT TRAFFIC CONTROL SYSTEM FOR CONGESTION CONTROL AND AMBULANCE CLEARANCE IN METRO CITYES |
| 48 | SAFTY AND SMART HELMAT SYSTEM FOR BIKE RIDERS |
| 49 | INTERACTIVE INTELLEGENT SHOPPING TROLLY USING RFID AND ZIGBEE TECHNOLOGY |
| 50 | REMOTE CONTROL SYSTEM OF HIGH EFFICIENCY AND INTELLIGENT STREET LIGHTING USING A ZIGBEE NETWORK OF DEVICES AND SENSORS |
| 51 | ADVANCED METERING AND DEMAND RESPONSE COMMUNICATION PERFORMANCE IN ZIGBEE BASED HANS |
| 52 | IMPLEMENTATION OF LOGISTICS MANAGEMENT SYSTEM BASED ON WIRELESS TECHNOLOGIES |
| 53 | WSN BASED KITCHEN MONITORING SYSTEM |
| 54 | A SMART METER DESIGN AND IMPLEMENTATION USING ZIGBEE BASED WIRELESS SENSOR NETWORK IN SMART GRID |
| 55 | ZIGBEE BASED WIRELESS DATA ACQUISITION SYSTEM FOR UNDERGROUND MINES.  |
| 56 | ENERGY-SAVING SYSTEM FOR CLASSROOM BASED ON CAMPUS CARD |
| 57 | HAND GESTURE BASED HOME AUTOMATION SYSTEM |
|  58 |  RFID AND ZIGBEE BASED MANUFACTURING MONITORING SYSTEM |
| 59 | [DEVELOPMENT OF INDOOR AIR QUALITY SUPERVISION SYSTEMS USING ZIGBEE WIRELESS NETWORKS](http://www.irisprojects.com/ieee-2018-2019-project-titles-on-wireless-communications/#ac_2470_collapse5) |
|  60 | INNOVATIVE PROTECTION OF VALUABLE TREES FROM SMUGGLING USING RFID AND SENSORS |
| 61 | AUTOMATIC IRRIGATION SYSTEM USING WIRELESS SENSOR NETWORK |
| 62 | * EARTHQUAKES AND TSUNAMI SIMULATION THROUGH GSM NETWORK.
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|  | **ROBOTICS APPLICATIONS** |
| 63 | HUMAN–ROBOT COLLABORATION BASED ON MOTION INTENTION ESTIMATION |
| 64 | SMART HOST MICROCONTROLLER FOR OPTIMAL BATTERY USAGE |
| 65 | PICK AND PLACE ROBOT |
| 66 | AGRI ROBOT FOR MULTIPURPOSE APPLICATIONS |
| 67 | ATUONOMOUS ROBOT FOR GRASS CUTTER FOR LAWN MAINTENANCE |
| 68 | AUTOMATIC PATHOLES AND HUMPSDETECTION ROBOT |
|  | **ANDROID BASED APPLICATIONS** |
| 69 | ACCESSIBLE DISPLAY DESIGN TO CONTROL HOME AREA NETWORKS |
| 70 | E-MENU CARD SYSTEM IN INTELLIGENT E-RESTAURANTS IN SMART CITYES |
| 71 | INTELLIGENT E-RESTAURANT USING ANDROID OS |
| 72 | BLUETOOTH BASED ROBOTIC VEHICLE MOVEMENT CONTROL SYSTEM |
| 73 | AN IMPLEMENTATION OF MOBILE CONTROL ROOM ENVIRONMENT IN ANDROID PLATFORM FOR INDUSTRIAL APPLICATIONS |
|  | **GENERAL APPLICATIONS** |
| 74 | WASTE SAGRIGATION SYSTEM TO SWACHA BHARATH |
| 75 | SMART WALKING ASSISTIVE DEVICE FOR BLIND PEOPLE |
| 76 | AUTOMATIC PATHHOLE DETECTION AND ALERT SYSTEM |
| 77 | RAIN OPERATED MANHOLES IN SMART METRO CITYES |
| 78 | DEVELOPMENT OF PULSE AND BLOOD PRESSURE MONITORING SYSTEM AND ALERT SYSTEM |
| 79 | [A SMART STREET-LIGHT INTENSITY OPTIMIZER](http://www.irisprojects.com/ieee-2018-2019-project-titles-on-arduino/#ac_2416_collapse19) |
| 80 | PORTABLE ROADSIDE SENSORS FOR VEHICLE COUNTING CLASSIFICATION & SPEED MEASUREMENT |
| 81 | SECURE IOT PLATFORM FOR INDUSTRIAL CONTROL SYSTEMS |
| 82 | ROBUST RAILWAY CRACK DETECTION SYSTEM |
| 83 |  AUTOMATIC DRUNKEN DRIVEN DETECTING SYSTEM IN AUTONOMOUS VEHICLES |

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