CritaC Infotech

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IEEE PROJECT TITLE 2017-18

DOMAIN : EMBEDDED SYSTEM

Prabu V,
Development Manager,
critacinfotech@gmail.com
www.critac.org
+91 95780 11100, +91 9715163446

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S.No	INTERNET OF THINGS PROJECT TITES	DOMAIN
EIOT01	A System for Monitoring Hand Hygiene Compliance based-on Internet-of-Things	
EIOT02	Agricultural Crop Monitoring using IOT- A Study	
EIOT03	Analysis of Three IoT-Based Wireless Sensors for Environmental Monitoring	
EIOT04	Child Safety Wearable Device	
EIOT05	Developing Portable Instrument Based on Internet of Things for Air Quality Information System	
EIOT06	EMACS:Design and implementation of Indoor Environment Monitoring and Control	
EIOT07	Health Care Monitoring System in Internet of Things (loT) by Using RFID	
EIOT08	We-Care: An IoT-based Health Care System for Elderly People	
EIOT09	Worldwide Auto-mobi: Arduino IoT Home Automation System for IR Devices	INTERNET OF THINGS 2017-18
EIOT10	A Low Cost Automated Fluid Control Device using Smart Phone for Medical Application	
EIOT11	Multiple Motion Control System of Robotic Car Based on IoT to Produce Cloud Service	
EIOT12	Room Temperature Control and Fire Alarm/Suppression IoT Service Using MQTT on AWS	
EIOT13	Reconfigurable Smart Water Quality Monitoring System in IoT Environment	
EIOT14	IOT base Smart Home Appliances by using Cloud Intelligent Tetris Switch	
EIOT15	RFID-Based Attendance Management System	
EIOT16	Design and Implementation of Remotely Located Energy Meter Monitoring with Load Control and Mobile Billing System through GSM	
EIOT17	Health Monitoring Systems using IoT and Raspberry Pi – A Review	
EIOT18	Internet of Vehicles for Traffic Management	
EIOT19	Embedded Video Processing on Raspberry Pi	
EIOT20	Wireless Robo-pi for landmine detection	

S.No	ROBOTICS PROJECT TITLES	DOMAIN
ERO01	Low-Cost, Real-Time Obstacle Avoidance for Mobile Robots	ROBOTICS 2017-18
ERO02	Mine Detecting Robot Prototyping	
ERO03	A design of Gesture controlled mobile robot with robotic arm for nuclear environment	
ERO04	Analysis of Modular Biped Wall climbing Robot with High Mobility and Effective Transit Mechanism	
ERO05	A ZigBee–Based Framework for Approximating Sensor Range and Bearing	
ERO06	Based on MEMS Sensors Man-Machine Interface for Mechatronic Objects Control	
ERO07	Combined Mobile Robots Motion Control Using Information as Voice and Gesture Commands from Audio and Thermal Visual Sensors	
ERO08	Design and Implementation of a Lightweight Telepresence Robot For Medical Assistance	
ERO09	Managing Robot Kinematics Based on Arduino Controllers Using a Unity System	
ERO10	Lyapunov Based Driverless Vehicle in Obstacle Free Environment	
ERO11	Modeling and Simulation of a Moving Robotic Arm Mounted on Wheelchair	
ERO12	Efficient Visual Obstacle Avoidance for Robotic Mower	
ERO13	The Development of a Multi-legged Robot Using Eight-bar Linkages as Leg Mechanisms with Switchable Modes for Walking and Stair Climbing	

S.No	ARDUINO PROJECT TITLES	DOMAIN
EAR01	Mine Detecting Robot Prototyping	ARDUINO 2017-18
EAR02	The Development of a Multi-legged Robot Using Eight-bar Linkages as Leg Mechanisms with Switchable Modes for Walking and Stair Climbing	
EAR03	Internet of Vehicles (10 V) for Traffic Management	
EAR04	Real Time Health Monitoring of Industrial Machine Using Multiclass Support Vector Machine	
EAR05	RFID Technology: Beyond Cash-Based Methods in Vending Machine	
EAR06	Smart Home Automation System Using Bluetooth Technology	
EAR07	Child Safety Wearable Device	

S.No	ARDUINO PROJECT TITLES	
EAR08	Performance Enhancement and IoT Based Monitoring for Smart Home	
EAR09	Direct and Indirect Sensing two-axis Solar Tracking System	
EAR10	A Design of a Remote Weather Factors Monitoring System	
EAR11	A Real-Time Flood Alert System for Parking Lots	
EAR12	Jol-Shinchon: Design and Development of a Sensor Based Intelligent Auto Irrigation System	ARDUINO 2017-18
EAR13	Intelligent Home Automation System using Bit Voicer	
EAR14	An Approach to Establishment of Cars to Road Management System	
EAR15	Design of Bus Tracking and Fuel Monitoring System	
EAR16	A Performance Oriented Novel Design of Hexapod Robots	

S.No	RASBERRY PI PROJECT TITLES	DOMAIN
ERPI01	Driving Event Detection and Driving Style Classification using Artificial Neural Networks	
ERPI02	A application of movement direction control for the three wheeled mobile robot using visual information	
ERPI03	IOT based vehicle parking manager	
ERPI04	An IoT based Fire Alarming and Authentication System for Workhouse using Raspberry Pi 3	RASBERRY PI 2017-18
ERPI05	Improving Smart Home Security; Integrating Logical Sensing into Smart Home	
ERPI06	Performance Enhancement and IoT Based Monitoring for Smart Home	
ERPI07	Multiple Motion Control System of Robotic Car Based on IoT to Produce Cloud Service	
ERPI08	Vehicle Detection on a Pint-Sized Computer	
ERPI09	Vehicle Seat Vacancy Identification using Image Processing Technique	

S.No	LI-FI PROJECT TITLES	DOMAIN
ELIFI01	Optical Wireless Data Transmission with Enhanced Substitution Caesar Cipher Wheel Encryption	RASBERRY PI 2017-18
ELIFI02	Current Challenges for Visible Light Communications Usage in Vehicle Applications: A Survey	
ELIFI03	Visible Light Communications with Full-Duplex Relaying	
ELIFI04	Lookup: Robust and Accurate Indoor Localization Using Visible Light Communication	
ELIFI05	A Superimposed Relaying Strategy and Power Allocation for Outdoor Visible Light Communications	

S.No	WIRELESS COMMUNICATION	DOMAIN
EWL01	A Real-Time Flood Alert System for Parking Lots	WIRELESS 2017-18
EWL02	A Smart Meter Design and Implementation Using ZigBee Based Wireless Sensor Network in Smart Grid	
EWL03	A Study of the Mesh Topology in a ZigBee Network for Home Applications.	
EWL04	Design and Implementation of Real Time Transformer Health Monitoring System Using GSM Technology	
EWL05	E-health Acquistion, Transmission &MonitoringSystem.	
EWL06	Electrical Appliances Control Prototype by Using GSM Module and Arduino.	
EWL07	Lightweight Mashup Middleware for Coal Mine Safety Monitoring and Control Automation.	
EWL08	Improvement in Multiple Access Channel Allocation for Sensor Node Configuration Based on RFID Communication.	
EWL09	Micro-controller based Digital Meter with Alert System using GSM.	
EWL10	Realisation of a Smart Plug device based on Wi-Fi technology for use in Home Automation systems.	

S.No	CONSUMER ELECTRONICS PROJECT TITLES	DOMAIN
ECEL01	Detection and Tracking of Overtaking Vehicle in Blind Spot Area at Night Time	
ECEL02	Advance Automatic Toll Collection & Vehicle Detection During Collision using RFID	
ECEL03	Design of a Portable Smart Connected Solar- Powered Charger for Consumer Electronics	
ECEL04	Anti-theft Protection of Vehicle by GSM & GPS with Fingerprint Verification	CONSUMER ELECTRONICS 2017-18
ECEL05	Fingerprints in the Air: Unique Identification of Wireless Devices using RF RSS Fingerprints.	
ECEL06	A Wireless Sensor Network Based Low Cost and Energy Efficient Frame Work for Precision Agriculture	
ECEL07	IoT Smart Bell Notification System:Design and Implementation	
ECEL08	A Speed Compensation Algorithm for a Head Tilts Controller Used for Wheelchairs and Rehabilitation Applications	
ECEL09	Real-Time Obstacles Detection and Status Classification for Collision Warning in a Vehicle Active Safety System	
S.No	**BIO - MEDICAL PROJECT TITLES**	**DOMAIN**
EBIO01	A Low Cost Automated Fluid Control Device using Smart Phone for Medical Application	
EBIO02	An IoT Based Remote HRV Monitoring System for Hypertensive Patients	
EBIO03	A Speed Compensation Algorithm for a Head Tilts Controller Used for Wheelchairs and Rehabilitation Application	
EBIO04	A wireless continuous patient monitoring system for dengue wi-mon	BIO - MEDICAL 2017-18
EBIO05	Body and Fall Detection System with Heart Rate Monitoring	
EBIO06	Federated Internet of Things and Cloud Computing Pervasive Patient Health Monitoring System	
EBIO07	Implementation of Energy Efficient/Lightweight Encryption Algorithm for Wireless Body Area Networks	
EBIO08	Wearable Device for Increasing the Slow Wave Sleep Stage by Electrocutaneous Stimulation	

S.No	ELECTRICAL PROJECT TITLES	DOMAIN
ELE01	An Intelligent Load Management System With Renewable Energy Integration for Smart Homes	ELECTRICAL 2017-18
ELE02	Development of Embedded System for Making Plugs Smart	
ELE03	A Smart Meter Design and Implementation Using Zigbee Based Wireless Sensor Network in Smart Grid	
ELE04	Power Line Fault Detection and Localization Using High Frequency Impedance Measurement	
ELE05	Smart phone Application to Evaluate the Individual possibilities for the Application of Electric vehicles	
ELE06	Power Line Carrier Communication Based Low Cost Power Monitoring and Management System	
ELE07	An Innovative Two-Level Model for Electric Vehicle Parking Lots in Distribution Systems with Renewable Energy	
ELE08	Massive Internet of Things for Industrial Applications	
ELE09	Efficient Solar Power Management System for Self-Powered IoT Node	

S.No	GSM & GPS PROJECT TITLES	DOMAIN
EGSM01	Electrical Appliances Control Prototype by Using GSM Module and Arduino	GSM & GPS 2017-18
EGSM02	Design of Bus Tracking and Fuel Monitoring System	
EGSM03	Micro-controller based Digital Meter with Alert System using GSM	
EGSM04	E-health Acquistion, Transmission &Monitoring System	
EGSM05	Wearable fall detection system	
EGSM06	Anti-theft Protection of Vehicle by GSM & GPS with Fingerprint Verification	
EGSM07	The Development of a Remotely Controlled Home Automation System for Energy Saving	
EGSM08	Design and Implementation of Remotely Located Energy Meter Monitoring with Load Control and Mobile Billing System through GSM	
EGSM09	Design and Implementation of Real Time Transformer Health Monitoring System Using GSM Technology	
EGSM10	Visual Impairment Aid Using Haptic And Sound Feedback	