



SPIRO

Solutions Pvt. Ltd

- **Research & Development Program (RDP)**
- **Final Year Academic Project (FAP) in Software and Embedded Technologies**
- **Application Development Program (ADP)**

IEEE
PROJECT TITLES GUIDE
2016-2017



EMBEDDED

ARDUINO

S.No	Title	Year
1	Gait Generation with Smooth Transition Using CPG-Based Locomotion Control for Hexapod Walking Robot	2016
2	Automatic Toll E-Ticketing System For Transportation Systems	2016
3	Smart Lighting: Developing A Smarter Control Mechanism For Park Trail Lighting	2016
4	Smart Real-Time Healthcare Monitoring And Tracking System Using Gsm/Gps Technologies	2016
5	Embedded System Design Of A Real-Time Parking Guidance System	2016
6	AnyClimb: A New Wall-Climbing Robotic Platform for Various Curvatures	2016
7	Mixed Integer Programming-Based Semiautonomous Step Climbing of a Snake Robot Considering Sensing Strategy	2016
8	An Experimental Study on the PID and Fuzzy-PID Controllers on a Designed Two-Wheeled Self-Balancing Autonomous Robot	2016
9	Turning the internet of (my) things into a remote controlled laboratory	2016
10	Design and Implementation of a System Access	2016

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SPIRO SOLUTIONS PVT LTD

	Control by RFID	
11	A Novel Approach For Communication Among Blind, Deaf And Dumb People	2015
12	Electronic Speaking System For Speech Impaired People: Speak Up	2015
13	Biometric Access For A Secure Smart Robot	2015
14	Road Conditions Detection Using Arduino Based Sensing Module And Smartphone	2015
15	Iot-Based Physiological And Environmental Monitoring System In Animal Shelter	2015
16	Portable Heart Rate Measurement For Remote Health Monitoring System	2015
17	Arduino And Gsm Based Smart Energy Meter For Advanced Metering And Billing System	2015
18	The Effect Of Wheel Spin Velocity On The Propagation Of Signal To Enhance The Performance Of Tire Pressure Monitoring System	2015

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RASPBERRY PI

S.No	Title	
1	Development of a Portable Near Infrared Camera for Early Detection of Diabetic Ulcers	2016
2	Road Sign Recognition System on Raspberry Pi	2016
3	Computer Vision Approach Based Speed Limit Assistant	2016
4	A Computationally Low Cost Vision Based Tracking Algorithm for Human Following Robot	2016
5	Open-Source Smart Home Modules	2016
6	Development of a Highly Accurate and Low Cost Measurement Device for Field Operational Tests	2016
7	Cost Effective Digital Signage System using Low Cost Information Device	2016
8	A Remote Lab for Teaching Mechanics	2016
9	Design of an IoT-Based E-Learning Tested	2016
10	Quick Find: Fast and Contact-free Object Detection Using a Depth Sensor	2016
11	An Intelligent System For Monitoring And Controlling Of Street Light Using Gsm Technology	2015
12	Bluetooth Enabled Printer Adapter Using Raspberry Pi	2015

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13	Turning The Internet Of (My) Things Into A Remote Controlled Laboratory	2015
14	Sepia: Secure-Pin-Authentication-As-A-Service For Atm Using Mobile And Wearable Devices	2015
15	Healthcare Based On Lot Using Raspberry Pi	2015
16	Development Of Cloud Based Light Intensity Monitoring System Using Raspberry Pi	2015
17	Determination Of Ripeness And Grading Of Tomato Using Image Analysis On Raspberry Pi	2015
18	Autonomous Camera Based Eye Controlled Wheelchair System Using Raspberry-Pi	2015
19	One Approach To Weather Station Design Based On Raspberry Pi Platform	2015
20	Advanced Vehicle Monitoring And Tracking System Based On Raspberry Pi	2015

INTERNET OF THINGS

S.No	Title	
1	Water Level Meter For Alerting Population About Floods	2016
2	Smart Parking System For Internet Of Things	2016

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3	Point-N-Press: An Intelligent Universal Remote Control System For Home Appliances	2016
4	Intuitive Iot-Based H2u Healthcare System For Elderly People	2016
5	Design And Implementation Of Interoperable Iot Healthcare System Based On International Standards	2016
6	Improving The Security Of Wireless Sensor Networks In An Iot Environmental Monitoring System	2016
7	Rfid-Based Book Finder	2016
8	Effective Ways To Use Internet Of Things In The Field Of Medical And Smart Health Care	2016
9	Navigating The Challenges Of Internet Of Things (Iot) For Power And Energy Systems	2016
10	The Future of Ultra-Wideband Localization in RFID	2016
11	Developing An Open Access Monitoring Device For Off-Grid Renewables	2016
12	Secure Data Analytics for Cloud- Integrated Internet of Things Applications	2016
13	An IoT-based Scheme for Real Time Indoor Personal Exposure Assessment	2016
14	IoT Healthcare Analytics: The Importance of Anomaly Detection	2016
15	Interoperability of IoT Wireless Technologies in	2016

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	Ambient Assisted Living Environments	
16	Improving the Security of Wireless Sensor Networks in an IoT Environmental Monitoring System	2016
17	A neural network and IoT based scheme for performance assessment in Internet of Robotic Things	2016

LIFI

S.No	Title	
1	Impact Of Vlc On Light Emission Quality Of White Leds	2016
2	Stereo Audio Streaming Via Visible Light	2016
3	Uncoordinated Multiple Access Scheme For Vlc Systems With Positioning Capability	2016
4	Coexistence Of Wifi And Lifi Toward 5g: Concepts, Opportunities, And Challenges	2016
5	Implementation Of Zigbee-Vlc System To Support Light Control Network Configuration	2016
6	Inter-Building Plc-Vlc Integration Based On Psk And Csk Techniques	2016
7	Ecofriendly Data Transmission In Visible Light Communication	2015

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8	Smart Home Technologies Using Visible Light Communication	2015
9	A Visible Light Communication Link Protection Mechanism For Smart Factory	2015
10	An Indoor Broadband Broadcasting System Based On Vlc	2015
11	Separate Dimming Controlling And Data Transmission For An Indoor Visible Light Communication System	2015
12	Indoor MIMO Visible Light Communications: Novel Angle Diversity Receivers For Mobile Users	2015
13	Experimental Biomedical ECG Signal Transmission Using Vlc	2015

ROBOTICS

S.No	Title	
1	Mobile Robot For Retail Inventory Using Rfid	2016
2	Methodology Of Embedded System Design For Underwater Vehicle	2016
3	Fall Detection And Prevention Control Using Walking-Aid Cane Robot	2016
4	Optimized Assistive Human-Robot Interaction Using Reinforcement Learning	2016
5	Design And Manufacture Of Bio-Mimic Robotic Fish	2016

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6	A Lightweight Robotic Arm With Pneumatic Muscles For RobotLearning	2016
7	A Two-Fingered Underactuated Anthropomorphic ManipulatorBased On Human Precision Manipulation Motions	2016
8	Wirelessly Controlled Mines Detection Robot	2016
9	Line Detecting And Tracking Of A Mobile Robot With Multiple Rgb-D Cameras	2016
10	Integration Of Structural Health MonitoringAnd Intelligent Transportation Systems ForBridge Condition Assessment: CurrentStatus And Future Direction	2016
11	Planar Path Following Of Underwater Snake Robots In The Presence Of Ocean Currents	2016
12	Hierarchical And Networked VehicleSurveillance In Its: A Survey	2016
13	Auto Calibrated Head Orientation Controller for Robotic-Wheelchair Using MEMS Sensors and Embedded Technologies	2016
14	A Dataset for Improved RGBD-based Object Detection and Pose Estimation for Warehouse Pick-and-Place	2016
15	Enhancing Human-Robot Interaction by Interpreting Uncertain Information in Navigational Commands Based on Experience and Environment	2016

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16	The Soft-SixthFinger: a Wearable EMG Controlled Robotic Extra-Finger for Grasp Compensation in Chronic Stroke Patients	2016
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WIRELESS

S.No	Title	2016
1	Configurable Zigbee-Based Control System For People With Multiple Disabilities In Smart Homes	2016
2	Wireless Power Transmission For Multiple Devices	2016
3	A Novel Wireless Multifunctional Electronic Current Transformer Based On Zigbee-Based Communication	2016
4	Wireless Gas Leak Detection And Localization	2016
5	A Mobile Zigbee Module In A Traffic Control System	2016
6	Milk Products Monitoring System With Arm Processor For Early Detection Of Microbial Activity	2016
7	Interoperability Of Iot Wireless Technologies In Ambient Assisted Living Environments	2016
8	Zigbee Network System For Observing Operating Activities Of Work Vehicles	2016
9	Interoperability Of Iot Wireless Technologies In	2016

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	Ambient Assisted Living Environments	
10	Wireless Stethoscope For Recording Heart And Lung Sound	2016
11	The Design Of Building Fire Monitoring System Based On Zigbee-Wifi Networks	2016

BIO MEDICAL

S.No	Title	2016
1	Brain Computer Interface And Arduino microcontroller Family Software Interconnection Solution	2016
2	Development Of A Brain-Computer Interface Based On Visual Stimuli For The Movement Of A Robot Joints	2016
3	Secure Management Of Low Power Fitness Trackers	2016
4	A Circuit Model Of Real Time Human Body Hydration	2016
5	Autodietary: A Wearable Acoustic Sensor System For Food Intake Recognition In Daily Life	2016
6	Robotic Automated External Defibrillator Ambulance For Emergency Medical Service In Smart Cities	2016
7	Real-Time Patient Health Monitoring And Alarming Using Wireless-Sensor-Network	2016

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8	Bsn-Care: A Secure Iot-Based Modern Healthcare System Using Body Sensor Network	2016
9	A Multi-Signal Acquisition System For Preventive Cardiology With Cuff-Less Bp Measurement Capability	2016
10	Sensing Method Of Patient's Body Movement Without Attaching Sensors On The Patient's Body	2016
12	Skin Temperature Prediction In Lower Limb Prostheses	2016
13	Smart Brief Monitoring System For Assisted Living	2016
14	A Mechanism To Access The Medical Information And A Modeling Approach For Medical Hazards	2016
15	Estimation Of Circadian Body Temperature Rhythm Based On Heart Rate In Healthy, Ambulatory Subjects	2016
16	An Energy Efficient Sensor For Thyroid Monitoring Through The Iot	2016

GSM AND GPS

S.No	Title	
1	Navigating The Challenges Of Internet Of Things (Iot) For Power And Energy Systems	2016

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2	Automatic Oil Tank Truck Alarm System From Illegal Fuel Hoarding With Microcontroller And GSM Module Based System	2016
3	GPS Based Autonomous Vehicle Navigation And Control System	2016
4	A Mobile Zigbee Module In A Traffic Control System	2016
5	Train Ticket Gate System Employing Optical Wireless Communications	2016
6	Smart Vehicle Security System For Defending Against Collaborative Attacks By Malware	2016

CONSUMER ELECTRONICS

S.No	Title	2016
1	Abnormal Moving □ Vehicle Detection For Driver Assistance System In Nighttime Driving	2016
2	A Mobile Robot Which Can Follow And Lead Human By Detecting User Location And Behavior With Wearable Devices	2016
3	Blind User Wearable Audio As Distance For Indoor Navigation Based On Visual Markers And Ultrasonic Obstacle Detection	2016

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AUTOMATION

S.No	Title	2016
1	A Fuzzy-Based Building Automation Control System	2016
2	Smartphone: The Key To Your Connected Smart Home	2016
3	A Low Cost Smart Irrigation Control System	2016
4	Analysis Of Influence On Driver Behaviour While Using In-Vehicle Traffic Lights With Application Of Head-Up Display	2016
5	Robust Multirate On-Road Vehicle Localization For Autonomous Highway Driving Vehicles	2016
6	Design And Fabrication Of An Underwater Remotely Operated Vehicle	2016
7	Likelihood-Field-Model-Based Dynamic Vehicle Detection And Tracking For Self-Driving	2016
8	Automatic Rationing System	2016

VIRTUAL REALITY

S.No	Title	
1	Press Dedicated Machine Show-Room, A Direct Application Of Augmented Reality In Industry.	2016
2	Ship Detection In Spaceborne Optical Image With SVD	2016

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	Networks	
3	Automatic Speed Adjustment For Travel Through Immersive Virtual Environments Based On Viewpoint Quality	2016
4	Cognitive Load Measurement In A Virtual Reality-Based Driving System For Autism Intervention	2016

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Education Partners:



Technologies and Domain used:

IEEE 2016, Java, J2ee, Android, Dot net, PHP, Embedded, Vlsi, Matlab, VB, Net working, Data Mining, Image Processing, Cloud Computing, Mobile Computing, Multimedia, Network Security, Soft Engg, Grid Computing, Automation, Robotics, Communication, RF, Zigbee, Blue tooth, GSM/GPS/GPRS, Power Electronics & Systems, Electrical, DSP, RTOS, Bio metrics, etc.

Features

- Latest 2016 IEEE, Science Direct, ACM based project concept and solutions.
- State of the art infrastructure, Innovative Project training methods.
- All our efforts are focused on students to meet industry requirements.
- Our environment is encapsulated with doctorates, professionals and other experts.
- Excellent Placements through our **Spiro HR Management Consultants (SMC) Pvt Ltd.**

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