



**JP INFOTECH**

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

[www.jpinfotech.org](http://www.jpinfotech.org)

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Chennai Office : JP INFOTECH, Old No.31,  
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**2016 - 2017 ECE (Embedded) IEEE FINAL YEAR Projects @ JP INFOTECH**

S.NO	Project Code	IEEE 2016-17 Embedded (ECE) Project Titles	Domain	Lang/Year
1	JPE1601	A Mobile ZigBee Module In a Traffic Control System	ZIGBEE	2016
2	JPE1602	Application of Distributed Wireless Chloride Sensors to Environmental Monitoring: Initial Results		2016
3	JPE1603	Auto Calibrated Head Orientation Controller for Robotic-Wheelchair Using MEMS Sensors and Embedded Technologies	ROBOTICS	2016
4	JPE1604	Configurable ZigBee-based Control System for People with Multiple Disabilities in Smart Homes	ZIGBEE	2016
5	JPE1605	Development of Traffic Light Control Algorithm in Smart Municipal Network		2016
6	JPE1606	Embedded control system for smart walking assistance device		2016
7	JPE1607	Energy Efficient Outdoor Light Monitoring and Control Architecture Using Embedded System		2016
8	JPE1608	FPGA-Based Architecture for a Multisensory Barrier to Enhance Railway Safety		2016
9	JPE1609	Long range VLC temperature monitoring system using CMOS of mobile device camera		2016
10	JPE1610	New Applications of an Automated System for High-Power LEDs		2016
11	JPE1611	Preprocessing Design in Pyroelectric Infrared Sensor-Based Human-Tracking System: On Sensor Selection and Calibration		2016
12	JPE1612	Real-Time Patient Health Monitoring and Alarming Using Wireless-Sensor-		2016



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Network				
13	JPE1613	Research on Parallel Control Mechanism and Its Implementation in ATP		2016
14	JPE1614	Smart Real-Time Healthcare Monitoring and Tracking System using GSM/GPS Technologies	GSM AND GPS	2016
15	JPE1615	Smart Traffic Light Control System		2016
ARDUINO				
16	JPE1616	An Experimental Study on the PID and Fuzzy-PID Controllers on a Designed Two-Wheeled Self-Balancing Autonomous Robot	ARDUINO	2016
17	JPE1617	AnyClimb: A New Wall-Climbing Robotic Platform for Various Curvatures	ARDUINO	2016
18	JPE1618	Automatic Toll E-Ticketing System For Transportation Systems	ARDUINO	2016
19	JPE1619	Design and Implementation of a System Access Control by RFID	ARDUINO	2016
20	JPE1620	Embedded System Design Of A Real-Time Parking Guidance System	ARDUINO	2016
21	JPE1621	Gait Generation with Smooth Transition Using CPG-Based Locomotion Control for Hexapod Walking Robot	ARDUINO	2016
22	JPE1622	Mixed Integer Programming-Based Semiautonomous Step Climbing of a Snake Robot Considering Sensing Strategy	ARDUINO	2016
23	JPE1623	Smart Lighting: Developing A Smarter Control Mechanism For Park Trail Lighting	ARDUINO	2016
24	JPE1624	Smart Real-Time Healthcare Monitoring And Tracking System Using Gsm/Gps Technologies	ARDUINO	2016
25	JPE1625	Turning the internet of (my) things into a remote controlled laboratory	ARDUINO	2016



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RASPBERRY PI				
26	JPE1626	A Computationally Low Cost Vision Based Tracking Algorithm for Human Following Robot	RASPBERRY PI	2016
27	JPE1627	A Remote Lab for Teaching Mechanics	RASPBERRY PI	2016
28	JPE1628	Computer Vision Approach Based Speed Limit Assistant	RASPBERRY PI	2016
29	JPE1629	Cost Effective Digital Signage System using Low Cost Information Device	RASPBERRY PI	2016
30	JPE1630	Design of an IoT-Based E-Learning Tested	RASPBERRY PI	2016
31	JPE1631	Development of a Highly Accurate and Low Cost Measurement Device for Field Operational Tests	RASPBERRY PI	2016
32	JPE1632	Development of a Portable Near Infrared Camera for Early Detection of Diabetic Ulcers	RASPBERRY PI	2016
33	JPE1633	Open-Source Smart Home Modules	RASPBERRY PI	2016
34	JPE1634	Quick Find: Fast and Contact-free Object Detection Using a Depth Sensor	RASPBERRY PI	2016
35	JPE1635	Road Sign Recognition System on Raspberry Pi	RASPBERRY PI	2016
INTERNET OF THINGS (IoT)				
36	JPE1636	A neural network and IoT based scheme for performance assessment in Internet of Robotic Things	IoT	2016
37	JPE1637	An IoT-based Scheme for Real Time Indoor Personal Exposure Assessment	IoT	2016
38	JPE1638	Design And Implementation Of Interoperable IoT Healthcare System Based On International Standards	IoT	2016
39	JPE1639	Developing An Open Access Monitoring Device For Off-Grid Renewables	IoT	2016
40	JPE1640	Effective Ways To Use Internet Of Things In The Field Of Medical And Smart	IoT	2016



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Health Care				
41	JPE1641	Improving The Security Of Wireless Sensor Networks In An Iot Environmental Monitoring System	IoT	2016
42	JPE1642	Improving the Security of Wireless Sensor Networks in an IoT Environmental Monitoring System	IoT	2016
43	JPE1643	Interoperability of IoT Wireless Technologies in Ambient Assisted Living Environments	IoT	2016
44	JPE1644	Intuitive Iot-Based H2u Healthcare System For Elderly People	IoT	2016
45	JPE1645	IoT Healthcare Analytics: The Importance of Anomaly Detection	IoT	2016
46	JPE1646	Navigating The Challenges Of Internet Of Things (Iot) For Power And Energy Systems	IoT	2016
47	JPE1647	Point-N-Press: An Intelligent Universal Remote Control System For Home Appliances	IoT	2016
48	JPE1648	Rfid-Based Book Finder	IoT	2016
49	JPE1649	Secure Data Analytics for Cloud- Integrated Internet of Things Applications	IoT	2016
50	JPE1650	Smart Parking System For Internet Of Things	IoT	2016
51	JPE1651	The Future of Ultra-Wideband Localization in RFID	IoT	2016
52	JPE1652	Water Level Meter For Alerting Population About Floods	IoT	2016
<b>LIFI</b>				
53	JPE1653	Coexistence Of Wifi And Lifi Toward 5g: Concepts, Opportunities, And Challenges	LIFI	2016
54	JPE1654	Impact Of Vlc On Light Emission Quality Of White Leds	LIFI	2016



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55	JPE1655	Implementation Of Zigbee-Vlc System To Support Light Control Network Configuration	LIFI	2016
56	JPE1656	Inter-Building Plc-Vlc Integration Based On Psk And Csk Techniques	LIFI	2016
57	JPE1657	Stereo Audio Streaming Via Visible Light	LIFI	2016
58	JPE1658	Uncoordinated Multiple Access Scheme For Vlc Systems With Positioning Capability	LIFI	2016
<b>ROBOTICS</b>				
59	JPE1659	A Lightweight Robotic Arm With Pneumatic Muscles For Robot Learning	ROBOTICS	2016
60	JPE1660	A Two-Fingered Underactuated Anthropomorphic Manipulator Based On Human Precision Manipulation Motions	ROBOTICS	2016
61	JPE1661	Design And Manufacture Of Bio-Mimic Robotic Fish	ROBOTICS	2016
62	JPE1662	Enhancing Human-Robot Interaction by Interpreting Uncertain Information in Navigational Commands Based on Experience and Environment	ROBOTICS	2016
63	JPE1663	Fall Detection And Prevention Control Using Walking-Aid Cane Robot	ROBOTICS	2016
64	JPE1664	Integration Of Structural Health Monitoring And Intelligent Transportation Systems For Bridge Condition Assessment: Current Status And Future Direction	ROBOTICS	2016
65	JPE1665	Line Detecting And Tracking Of A Mobile Robot With Multiple Rgb-D Cameras	ROBOTICS	2016
66	JPE1666	Methodology Of Embedded System Design For Underwater Vehicle	ROBOTICS	2016
67	JPE1667	Mobile Robot For Retail Inventory Using Rfid	ROBOTICS	2016
68	JPE1668	Optimized Assistive Human-Robot Interaction Using Reinforcement Learning	ROBOTICS	2016
69	JPE1669	Planar Path Following Of Underwater Snake Robots In The Presence Of Ocean Currents	ROBOTICS	2016



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70	JPE1670	The Soft-SixthFinger: a Wearable EMG Controlled Robotic Extra-Finger for Grasp Compensation in Chronic Stroke Patients	ROBOTICS	2016
71	JPE1671	Wirelessly Controlled Mines Detection Robot	ROBOTICS	2016
<b>ZIGBEE</b>				
72	JPE1672	A Mobile Zigbee Module In A Traffic Control System	ZIGBEE	2016
73	JPE1673	A Novel Wireless Multifunctional Electronic Current Transformer Based On Zigbee-Based Communication	ZIGBEE	2016
74	JPE1674	Configurable Zigbee-Based Control System For People With Multiple Disabilities In Smart Homes	ZIGBEE	2016
75	JPE1675	The Design Of Building Fire Monitoring System Based On Zigbee-Wifi Networks	ZIGBEE	2016
76	JPE1676	Wireless Gas Leak Detection And Localization	ZIGBEE	2016
77	JPE1677	Wireless Power Transmission For Multiple Devices	ZIGBEE	2016
78	JPE1678	Zigbee Network System For Observing Operating Activities Of Work Vehicles	ZIGBEE	2016
<b>GSM AND GPS</b>				
79	JPE1679	A Mobile Zigbee Module In A Traffic Control System	GSM AND GPS	2016
80	JPE1680	Automatic Oil Tank Truck Alarm System From Illegal Fuel Hoarding With Microcontroller And GSM Module Based System	GSM AND GPS	2016
81	JPE1681	GPS Based Autonomous Vehicle Navigation And Control System	GSM AND GPS	2016
82	JPE1682	Navigating The Challenges Of Internet Of Things (Iot) For Power And Energy Systems	GSM AND GPS	2016
83	JPE1683	Smart Vehicle Security System For Defending Against Collaborative Attacks By Malware	GSM AND GPS	2016



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84	JPE1684	Train Ticket Gate System Employing Optical Wireless Communications	GSM AND GPS	2016
<b>CONSUMER ELECTRONICS</b>				
85	JPE1685	A Mobile Robot Which Can Follow And Lead Human By Detecting User Location And Behavior With Wearable Devices	CONSUMER ELECTRONICS	2016
86	JPE1686	Abnormal Moving Vehicle Detection For Driver Assistance System In Nighttime Driving	CONSUMER ELECTRONICS	2016
87	JPE1687	Blind User Wearable Audio As Distance For Indoor Navigation Based On Visual Markers And Ultrasonic Obstacle Detection	CONSUMER ELECTRONICS	2016
<b>AUTOMATION</b>				
88	JPE1688	A Fuzzy-Based Building Automation Control System	AUTOMATION	2016
89	JPE1689	A Low Cost Smart Irrigation Control System	AUTOMATION	2016
90	JPE1690	Analysis Of Influence On Driver Behaviour While Using In-Vehicle Traffic Lights With Application Of Head-Up Display	AUTOMATION	2016
91	JPE1691	Automatic Rationing System	AUTOMATION	2016
92	JPE1692	Design And Fabrication Of An Underwater Remotely Operated Vehicle	AUTOMATION	2016
93	JPE1693	Likelihood-Field-Model-Based Dynamic Vehicle Detection And Tracking For Self-Driving	AUTOMATION	2016
94	JPE1694	Robust Multirate On-Road Vehicle Localization For Autonomous Highway Driving Vehicles	AUTOMATION	2016
95	JPE1695	Smartphone: The Key To Your Connected Smart Home	AUTOMATION	2016
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**PROJECT SUPPORT TO REGISTERED STUDENTS:**

- 1) IEEE Base paper.
- 2) Abstract Document.
- 3) Future Enhancement (based on Requirement).
- 4) Modified Title / Modified Abstract (based on Requirement).
- 5) Complete Source Code.
- 6) How to Run execution help file.
- 7) Software Packages
- 8) International Conference / International Journal Publication based on your project.



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