



Phone : +91 9790238391

Mail: academiccollegeprojects@gmail.com

Website : academiccollegeprojects.com

Twitter: <https://twitter.com/BestAcademicPRO>

Zigbee based Projects are aimed at remote control and sensor applications. Zigbee Projects helps to transmit data over long distances by passing data through a mesh network. Major Goal of Zigbee Projects is to create personal area networks built from small, low-power digital radios.

We assist Research Scholars in implementing **Zigbee Based Projects** with best customer Support. For more details **contact us: +91 9790238391**.

SOFTWARE used in Zigbee Based Projects

- ✓ Z-Stack™ Software Stack.
- ✓ CC2538 Foundation Firmware.

Versions of Zigbee:

- Zigbee 2004.
- Zigbee 2006.
- Zigbee 2007.
- Zigbee PRO.
- RF4CE.

DOMAIN AREA for Zigbee Based Projects.

- Embedded systems.
- Wireless Communication.
- Networking.

Zigbee features .

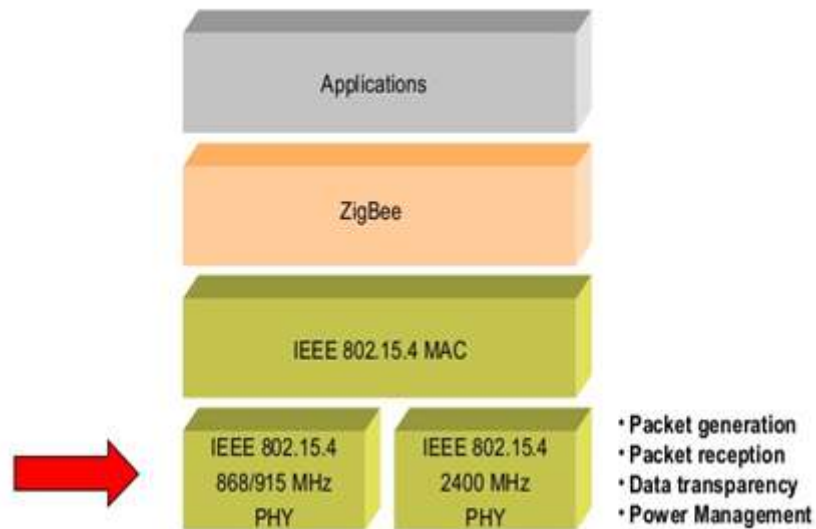
- Simple protocol, global implementation.
- Appropriate levels of security.

Website: <https://academiccollegeprojects.com> Mail: academiccollegeprojects@gmail.com

Phone Number: +91 9790238391 Google+ <https://plus.google.com/104643943617095075238>

Link to **Zigbee Projects**: <https://academiccollegeprojects.com/ece-projects/zigbee-projects>

802.15.4 / ZigBee Architecture



Zigbee:

- Low-power digital radios based on the IEEE 802.15.4 standard.
- Zigbee is similar to that of IEEE 802.11 and the Wi-Fi.
- Works with 3rd party terminal like hyper terminal.

Applications of Zigbee Based Projects.

- Building Automation.
- Consumer electronics.
- Industrial control.
- PC Peripherals.
- Embedded Systems.
- Wireless Technologies.

Sample IEEE Zigbee Based Projects Titles.

SI	Top 50 2015 IEEE ZigBee Projects Titles.
1	Taming Cross-Technology Interference for WiFi and ZigBee Coexistence Networks.
2	Protective Dummy-byte Preamble Padding for improving ZigBee packet transmission under Wi-Fi interference.
3	Improving ZigBee Device Network Authentication Using Ensemble Decision Tree Classifiers With Radio Frequency Distinct Native Attribute Fingerprinting.
4	ZIL: An Energy-Efficient Indoor Localization System Using ZigBee Radio to Detect WiFi Fingerprints.
5	A time and energy efficient parking system using Zigbee communication protocol.
6	Development of a voice-controlled home automation using Zigbee module.
7	Enhanced ZigBee tree addressing for flexible network topologies.
8	ZigBee-based irrigation system for home gardens.
9	Coexistence of ZigBee-based WBAN and WiFi for Health Telemonitoring Systems.
10	Design and Application of a VOC-Monitoring System Based on a ZigBee Wireless Sensor Network.
11	ISO/IEEE 11073 interoperability for personal health devices based on ZigBee healthcare service.
12	Implementation of an incampus fire alarm system using ZigBee.
13	Experimental analysis of Zigbee RF signal performance for railway application: Study on a laboratory reduced scale train.
14	Implementation of a Wireless ECG Acquisition SoC for IEEE 802.15.4 (ZigBee) Applications.
15	Study of the coexistence between ZigBee and Wi-Fi IEEE 802.11b/g networks in the ISM band.
16	A Zigbee-Based Animal Health Monitoring System.
17	Case study: WIRELESSHART vs ZIGBEE network.
18	Energy efficient intra-hospital multi-patient cardiac monitoring through ZigBee network.
19	Home energy management system based on daily demand prediction and ZigBee network.
20	Design of a remote stress monitoring system based on GPRS and ZigBee.
21	An automatic irrigation system using ZigBee in wireless sensor network.
22	Level-Converting Retention Flip-Flop for Reducing Standby Power in ZigBee SoCs.
23	Performance analysis of ZigBee based real time Home Automation system.
24	Real Time AMR & Control of Household Energy Meter with Zigbee Communication.
25	An efficient algorithm for localization using RSSI based on ZigBee.
26	A design of Linux based ZigBee and Bluetooth low energy wireless gateway for remote parameter monitoring

27	Dynamic integration of appliances into ZigBee home networks through web services.
28	Comparison of two speech communication codecs for transmitting voice/speech over Zigbee.
29	Modeling of ZigBee (IEEE 802.15.4) channel in rail environment for Intelligent Transport.
30	High efficient and intelligent lighting and security remote control system using a Zigbee network.
31	A study paper on power management in electrical devices using Zigbee network.
32	A ZigBee based reliable and efficient power metering system for energy management and controlling.
33	Non-intrusive Zigbee power meter for load monitoring in smart buildings.
34	ZigBee-Based Communication System for Data Transfer Within Future Microgrids.
35	CARDEAGate: Low-cost, ZigBee-based localization and identification for AAL purposes.
36	ZigBee cluster tree formation for time-bounded data flows in one collision domain.
37	Bluetooth and ZigBee??-??Fast-Paced Standards Development Boosts Growth.
38	Wireless colour sensing arm robot.
39	Embedded Wireless Data Acquisition system for unmanned vehicle in underwater environment.
40	Techniques improving throughput of wireless sensor network: A survey.
41	Smart drip irrigation system using raspberry pi and arduino.
42	Harvested Power Wireless Sensor Network Solution for Disaggregated Current Estimation in Large Buildings.
43	Smart home for elderly care, based on Wireless Sensor Network.
44	A low cost M2M architecture for intelligent public transit.
45	Vehicle to vehicle safety device - an ease for safe driving.
46	Web based automatic irrigation system using wireless sensor network and embedded Linux board.
47	Design and implementation of a wireless sensor network for rose greenhouses monitoring.
48	A New Low-Cost Centralized MPPT Controller System for Multiply Distributed Photovoltaic Power Conditioning Modules.
49	Implementing Intelligent Traffic Control System for Congestion Control, Ambulance Clearance, and Stolen Vehicle Detection.
50	Renewable energy management system in home appliance.