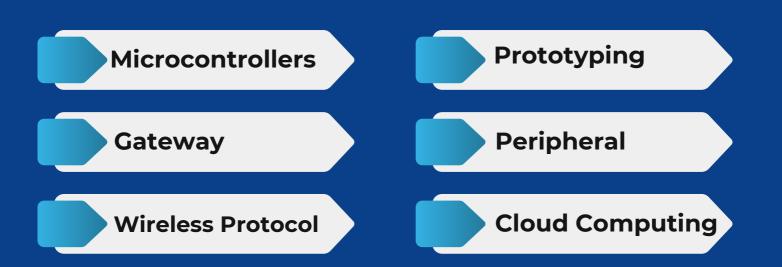


Embedded System and IOT Services

INDUSRIES WE SERVE

Industrial Electronics | Consumer Electronics | Medical Devices | Automotive | Home Automation | Lighting | Smart Metering & Sensors



Embedded System & IoT Services

Microcontrollers

- Microcontroller selection and evaluation
- Hardware design
- Testing and validation
- Firmware development
- Consulting
- Prototyping

Peripheral

- On-chip peripherals programming
- Off-chip peripherals interfacing and programming
- Sensor interfacing
- Actuator interfacing

Wireless Communication

- Wireless communication protocol
- Bluetooth
- ZigBee
- WiFi
- 2.4 Ghz radio(like NRF24l01)
- GSM and GPRS

Prototyping

- Firmware design and development
- Firmware testing and debugging
- Firmware documentation
- Firmware migration
- Firmware updates

Gateway

- Industrial gateways
- Commercial gateways
- Home gateways
- Mobile gateways

Cloud Computing

- Data storage
- Data Processing
- Machine learning
- Security
- Remote management and monitoring

Methodology to develop embedded system and IOT based Product



DEFINE THE REQUIREMENTS

Clearly define the requirements of the embedded system or IoT product, including the intended purpose, functionality, performance, and user interface.



CHOOSE THE PLATFORM

Identify the hardware platform and software stack that will be used for the project. This may include selecting a microcontroller, sensor, wireless communication module, and operating system.



DESIGN SYSTEM ARCHITECTURE

Develop a high-level system architecture that defines the major subsystems and their interconnectivity.



DEVELOP THE SOFTWARE

Develop the software for the embedded system or IoT product, including the firmware, application software, and user interface.



SIMULATION OF HARDWARE ON SOFTWARE

Simulation of hardware on software simulators for embedded systems is a technique used to test and debug embedded software without the need for physical hardware. This can be done by creating a model of the hardware in the software and then simulating the behavior of the hardware & software together.



HARDWARE DESIGN & DEVELOPMENT

Designing the schematic, Designing the PCB layout, Manufacturing the PCB, Testing the hardware, Debugging the hardware



PROTOTYPE & TESTING

Create a functional prototype of the system and conduct thorough testing to ensure that it meets the requirements and specifications.



REFINEMENT & OPTIMIZATION

Analyze the test results and refine the system as needed to optimize performance and functionality.

DELIVER TO CUSTOMER

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