Mandaji SaiKumar

IOT Developer | PCB Designer | Embedded Engineer

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Profiles

in mandaji-saikumar   ⊙ saikumar-mandaji   ⊙ Portfolio

Summary

Highly motivated IoT Systems Engineer with a unique blend of technical prowess and creativity to seamlessly bridge the gap between hardware and software, transforming ideas into innovative solutions.Seasoned with 4-5 years of experience with proven ability to leverage expertise in IoT, embedding systems, PCB Designing, Machine Learning Integration, and web development with Python as a backend to drive innovative IoT solutions and propel team achievements to new heights. Adept at exceeding expectations and consistently exceeding targets.

Skills

Wired &Wireless Protocols:
UART,CAN,SPI, I2C, Xbee, LoRa, Bluetooth, Wi-Fi, MQTT and HTTP.

Programming:
C++, Python,Embedded C,MicroPython,HTML CSS and JavaScript.

Circuit Designing:
KiCad, Altium, Orcad, and EasyEDA Pro.

Hardware Tools:
oscilloscopes, multimeters, and signal generators.

Simulation tools:
LTspice, EasyEDA and PuTTY

Sensors & Actuators

Free-RTOS

Experience

Niltech pvt.ltd   Aug 2019-Feb-2020
Internship

- Successfully contributed to diverse projects during internships, gaining hands-on experience in software development, IoT technologies, and machine learning integration.
- Collaborated with multidisciplinary teams to deliver innovative solutions, demonstrating strong problem-solving skills and a commitment to continuous learning and growth.

Niltech pvt.ltd   2020 - Present
IOT Systems Engineer

- Leveraged various microcontrollers and SoC boards of popular famlies, such as Arduino, Raspberry Pi, STM32, BeagleBone and ESP32, to develop products resulting in a 20% increase in client satisfaction that exceeded client's expectations.
- Conducted extensive research and development to design a compound IoT module capable of efficiently processing data from multiple interconnected components like sensors, actuators, and communication modules, significantly enhancing system reliability by 35% and scalability by 50%.
- Achieved a 30% reduction in processing time by collaborating closely with machine learning specialists to integrate Python scripts into real-time applications, thereby significantly enhancing functionality and efficiency.
- Contributed significantly to the development and upkeep of specialized equipment for critical military and research projects, demonstrating dedication to high-stakes endeavors.
- Engineered firmware for a large-scale Smart Card Payphone System, deployed across 2500+ units, optimizing functionality and user experience with I2C, SPI, and UART protocols.

Education

Guru Nanak college of engineering   2016-2019
ELECTRONICS AND COMMUNICATION ENGINEERING   B.Tech

Jyothishmathi Institute Of Technology   2013-2016
ELECTRONICS AND COMMUNICATION ENGINEERING   Diploma

Languages

English   **Telugu**   **Hindi**
Fluent   Native   Conversational