



Senior Embedded Software Engineer

About the Company

Intelligent Product Solutions (IPS) is a globally recognized product design and development company headquartered in New York. Specializing in end-to-end services, IPS brings ideas to life through expertise in UI/UX, mechanical, software, embedded, systems, electrical, and optical engineering. The team is dedicated to delivering innovative, high-quality solutions tailored to clients' unique needs at every stage of product development. With a commitment to excellence and customer satisfaction, IPS is a trusted partner for turning concepts into market-ready products. Please look at what we do:

www.intelligentproductsolutions.com

We are looking for a mid to senior level Embedded Software Engineer to develop and support firmware for low power and connected embedded systems. This role requires experience with microcontrollers, embedded C/C++, and Bluetooth based IoT solutions, as well as the ability to work with hardware and software engineers. This is a full-time contract to hire position based on site at our Hauppauge, NY office.

Required Qualifications

- Requires a Bachelor or Master of Science in Computer Engineering or Electrical Engineering
- 7+ years of experience
- Extensive experience with microcontrollers, including ARM-based platforms like STM32 and NXP, and AVR, DSP, and PIC devices.
- Proficiency in embedded C programming for microcontroller-based systems
- Experience developing bare-metal or RTOS-based firmware
- Experience with BLE and Bluetooth based IoT communication protocols
- Knowledge of IoT communication protocols such as Wi-Fi, Zigbee, and 4G/5G cellular
- Experience developing firmware for low power, battery operated systems
- Ability to design low level software and perform firmware verification, analysis, and optimization
- Experience with microcontroller interfaces: I²C, SPI, GPIO, ADC, CAN, and UART.
- Ability to read schematics and understand component data sheets
- Experience troubleshooting and debugging using oscilloscopes, logic analyzers, and related tools

Preferred Qualifications

- Experience with Silicon Labs BG22E and Simplicity Studio
- U.S. Citizenship
- Ability to design microprocessor or microcontroller subsystems and analyze power, thermal, and timing considerations
- Experience developing and refining technical requirements in a client facing environment



Benefits

- A competitive salary and benefits package commensurate with your experience and expertise.
- A dynamic and collaborative work environment where creativity and innovation are encouraged and fostered.
- Opportunities for continuous professional development and training, empowering you to stay at the forefront of the industry.
- A flexible work schedule that accommodates your lifestyle with a 9/80 work schedule, on-site presence required
- The satisfaction of working with a team of passionate and innovative engineers within a second-to-none culture of camaraderie.
- The opportunity to make a significant impact on society through your contributions to groundbreaking software solutions.

Equal Opportunity Employer

Intelligent Product Solutions is an equal-opportunity employer and values diversity at our company. We do not discriminate based on race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status.