



System Application Engineer

Summary:

We are looking for a System Application Engineer (SAE) who will be responsible for gaining a solid understanding of the most important internet-of-things (IoT) applications, their various hardware and software components, their relative importance, interconnections, and pain points. The role requires working in close collaboration with selected customers, the product team, Field Application Engineers (FAE), marketing, and sales, to develop well-documented Prescient Designer turn-key templates for various IoT areas, focused on ease-of-use, high degree of automation, and configurability. As part of developing the solutions, it is expected that the SAE will use Prescient Designer to its fullest, but also collaborate with the product team to define and architect new features. The SAE will also be responsible for defining and developing new modules and module libraries, either proprietary or open-source, as appropriate.

Our ideal candidate has a broad understanding of sensors, edge devices, and the IoT software stack, from embedded operating systems to the cloud. The SAE will be motivated to make complicated IoT applications easy and performant when using Prescient Designer, and constantly drive to enable customers to focus on the high-value problems they are trying to solve, while working to make Prescient Designer handle all the surrounding IoT complexity seamlessly.

Our ideal candidate:

- You understand IoT applications and how PDI's products will help customers develop unique solutions that provide market differentiation and value
- You are self-motivated and results oriented
- You enjoy solving complex technical problems and delighting customers
- You are confident and not willing to accept or settle for average

Essential Functions include, but are not limited to the following:

- Analyzing existing and emerging IoT applications; identifying and synthesizing areas that could to be abstracted away, simplified and/or streamlined, and are a good fit for the Prescient Devices ecosystem, thus enabling customers to focus on their specific domain, and not in IoT complexity and systems.
- Collaborating with sales, marketing and product team to define and develop turn-key solutions for a variety of IoT applications like machine vision/machine learning, predictive maintenance, etc. Generate all necessary collateral (documentation, videos, screencasts, etc.) to minimize customer adoption of developed solution.



- Define, develop and maintain open-source and/or proprietary Prescient Designer modules to be used stand-alone, as part of domain-specific libraries, or as part of turn-key solutions. When applicable, interface with the open-source community at large to process pull requests and otherwise foster a good community and ecosystem around the open-source Prescient Devices offerings.
- Collaborating with field application engineers and product team in troubleshooting system applications on customer's request.
- Participate in different seminars, conferences and meetings promoting the developed solutions.

Skills & Qualifications

Education:

- BSEE with 5+ years of relevant experience, or MSEE with 3+ years of relevant experience

Experience:

- Understanding and experience with edge computing hardware
- Understanding of wireless and wired communications, along with associated standards and protocols
- Understanding of cloud computing

Skills:

- High initiative and self-started mindset
- Continuous learning mindset
- Strong technical communication (oral and written)
- Ability to understand, digest and present complex technical requirements, issues, and solutions, in precise and accurate manner, in verbal and written communication
- Ability to analyze, summarize and generate status updates from technical data
- Computer programming experience

Preferred

- IoT (sensors), and/or edge computing knowledge and experience
- Signal processing, and system modeling experience
- Node-RED and open-source software experience
- Programming experience (JavaScript, Python, etc.)
- AI/ML experience (TensorFlow, Keras, PyTorch or similar)

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for their job. Duties, responsibilities, and activities may change at any time with or without notice.

Prescient Devices is an equal opportunity employer. At Prescient Devices we are committed to treating all Applicants fairly based on their abilities, achievements, and experience without regard to race, national origin, sex, age, disability, veteran status, sexual orientation, gender identity, or any other classification protected by law.