Position: Firmware Engineer

Location: Pune, India

Working in an Agile/Scrum environment with leading edge programming languages, you will be developing products for Pulsar Measurement company. In this role you execute the complete firmware development lifecycle.

Key Responsibilities include:
- Define, design & develop new firmware for microcontroller-based products.
- Specify and perform unit and system level testing that encompasses embedded hardware and firmware.
- Maintain or enhance the current legacy firmware.
- Assist technical support and production with specification of relevant operational test procedures.
- Generating and maintaining detailed and technical documentation including engineering journal, tracking changes, and revising BOMs, test and build instructions.

Required Qualifications:
- Proven working experience (4+ years) in firmware design and development experience
- Working knowledge of bare metal development
- Bachelor's degree in electrical/Electronic Engineering, Computer Engineering
- Experience in hands-on development and troubleshooting on embedded targets including hardware device drivers
- Solid programming experience in **C & C++**
- Development experience with UART, I2C, SPI, RS-232, RS-485, USB drivers, etc.
- Strong experience with Modbus RTU protocol programming
- Experience in electronics troubleshooting
- Familiarity with software version control (Github/GitLab), defect tracking tools, and peer review.
- Well organized with excellent planning skills preferably in an agile environment with a commitment to timelines, estimates, budgets, and risks
- Must be able to work with minimal supervision and resourcefully get things done, self-starter
- Ability to work in a dynamic team environment, where customer driven priorities can require rapid juggling of priorities and tasks

Preferred Candidate Qualifications:
- Experience with Microchip PIC32 and STM32 development toolchains
- Experience with electronics design and diagnostic
- Strong mathematical and analytical skills
- MQTT/Sparkplug messaging protocol programming experience