

SOFTWARE-FIRMWARE DEVELOPMENT ENGINEER

You must be eligible to work in the United States without company sponsorship

Qualified candidate must:

- **Commute reliably to the office daily or relocate to area**

THE ROLE:

- **ONSITE ONLY (no remote work)**
- The Software-Firmware engineer will work with the Product Development and Manufacturing Operations groups to develop, release and maintain software-firmware applications for the company's product design reference kits, and product test and characterization applications, all running in a Microsoft Windows /Raspberry PI environment.
- Develop new software & firmware for new product design reference kits, product demonstrators, test benches.
- Maintain design reference kit software and firmware applications.
- Deploy new parametric test software/firmware for all company products.
- Develop scripts to support prototype/product test and characterization during development and qualification phases.
- Develop software to manage display test systems data output, control test equipment flows.

QUALIFICATIONS:

- BS Computer Sciences, Computer/Electrical Engineering
- 2-5 years related experience with electronic systems product development environment (semiconductor industry preferred)
- Experience developing .NET (VB, C#) applications targeting a Windows environment using Visual Studio
- Working knowledge of C for embedded application.
- Working knowledge of micro-controller firmware development and code validation (Microchip PIC controller experience desired).
- Working knowledge of serial communication protocols (I2C, RS232, USB, GPIB, SPI, etc.).
- Working knowledge of software validation techniques and troubleshooting at application and board levels.
- Working knowledge of revision control and revision control techniques.
- Experience with user application development and troubleshooting.
- Experience with Python.
- Experience with equipment control (power supply, measurement tools, etc.) over RS232, USB, RCP/IP .
- Experience with common network communication protocols (TCP/IP, SSH, etc.).
- Experience with database operations is a + (MS-Access, SQL).
- Experience with display interfaces is a +.
- Experience with Raspberry Pi and Arduino a +.