

Position Title: Software Systems Engineer – **JC:** I0720SSE0065

Position Location/Interview: Santa Clara, CA USA

Salaried: Full-Time

PDF Solutions, Inc. (NASDAQ: PDFS) is a leading provider of yield improvement technologies, services, systems and analytics for the IC manufacturing process life cycle. Headquartered in San Jose, Calif., PDF Solutions operates worldwide with additional offices in China, Europe, Japan, Korea and Taiwan.

Job Duties

- Scope and design software architecture for innovative Electron Beam Microscope based metrology tool.
- Research and prototype algorithms to perform different aspects of the tool control.
- Develop calibration and diagnostics methodologies.
- Write all machine control software in LabVIEW.
- Support control software activities on tools, including software design, implementation, installation, troubleshooting and testing.
- Mentor other members of the team on implementing components on the designed architecture.
- Manage internal and external engineering resources as needed to progress the project.
- Document design, debugging and testing procedures.
- Develop machine control software for semiconductor capital equipment including test instrumentation, performing data acquisition and analysis.
- Write low level control for various types of components like DC/RF power supplies, motion control, mass flow controllers, etc. including software simulation ability to improve development/testing without requiring access to an actual process tool.
- Write higher level software for running recipes and develop appropriate GUIs.
- Work with technical requirement specifications to develop and document code.

Minimum Qualification and Skills

- Bachelor of Science degree with a major in Electronic engineering or closely related field.
- 4 years of work experience as a LabView Programmer, Software Engineer, or closely related field. Your work must include software development experience in machine control using National Instruments LabVIEW, preferably at the Semiconductor industry.
- Proficiency in LabVIEW development for GUI and time critical applications.
- Strong analytical abilities, especially in numeric algorithms and physics domain.
- Strong hands on skills on hardware control SW and troubleshooting.
- Proficient in Object Oriented development concept and working knowledge of developing embedded applications using text-based software like C++, C# is a plus.

Qualified Applicants should submit their resume and salary requirements and refer to Job Code: