



Prototype Sensor Systems Engineer

Location	Fredericksburg, VA		
Clearance Level	National Agency Background Investigation required		
Education	BSEE, BSCE, BSCS	Division	SEPI Directorate
Experience	2 Years	Position Type	Full-Time
Misc Requirements		Work Shift	Monday - Friday
		Travel Required	5%

GENERAL JOB DESCRIPTION

Works with in-house team of systems, software, electrical, and mechanical engineers designing, integrating and testing custom rugged prototype embedded imaging sensor systems

Works with customer and in-house sensor systems engineers to define system requirements, develops technical approaches and concepts for small to medium rapid integration projects. Develops detailed system designs and presents them for in-house and customer reviews. Helps manage integration. Develops surrogates and emulators for subsystems being delivered by team members. Tests custom hardware and software developed in-house. Evaluates and tests system through each phase of development. Makes recommendations for changes and upgrades to custom integrated systems.

Understands software, hardware, and networking architectures. Ability to evaluate different approaches to embedded systems development. Ability to work with outside customers with loose system specifications. Ability to work with advanced technologies in development such as infrared focal plane arrays, custom optical assemblies and power supplies, and custom image processing circuit card assemblies

CANDIDATE REQUIREMENTS

Required Skills:

- C and C++: Windows XP and/or Linux
- Ability to quickly develop emulators and surrogates
- Ability to debug and troubleshoot complex prototype systems
- Knowledge of embedded hardware and software architectures
- Good knowledge of imaging sensor interfacing and processing
- Good working knowledge of standard interfaces such as Ethernet, USB, I2C, SPI RS-232, Camera Link
- Ability to work in a fast paced rapid prototype development environment
- Ability to integrate loosely documented component technologies
- Ability to quickly develop conceptual and detailed system designs
- Ability to work closely with integrated team of mechanical, software, and electrical engineers

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