



Embedded Firmware 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	C,DSP,FPGA,Embedded	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

Designs, develops, and debugs custom firmware and software for FPGA, DSP, and microcontroller architectures. Applications include real time image acquisition, processing, embedded user interface, opto-mechanical control and networking

Works with customers and in-house systems and electrical engineer to define system requirements, conducts trade studies and evaluates hardware and software components, proposes hybrid COTS/custom hardware architectures

CANDIDATE REQUIREMENTS

Required Skills:

- C and C++: Windows XP and/or Linux
- C: 8 and 32 bit microcontrollers (PIC, AVR, ARM7 preferred)
- C: DSP (TI C6X)
- VHDL/Verilog: Xilinx Virtex/Sp
- artan, Altera Cyclone
- Understanding of basic image processing algorithms
- Understanding of basic motion control algorithms
- Experience troubleshooting custom circuit card designs
- Ability to work in a fast paced rapid prototype development environment
- Ability to integrate loosely documented component technologies

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