

**Confidential**  
**JOB DESCRIPTION FORM**

<b>Job Title:</b>	<u>Senior Software Engineer</u>	<b>Salary Band:</b>	<input type="checkbox"/> Non-Exempt
<b>Department Name:</b>	R&D – Software	<b>FLSA:</b>	<input checked="" type="checkbox"/> Exempt
<b>Reports To:</b>	Director, Software Development	<b>Job Class:</b>	

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**JOB SUMMARY:**

Design and develop embedded software and imaging software to drive solid imaging systems.

Candidate Profile: Senior level embedded software engineer with electrical and electronics engineering computer science or mechanical engineering background.

**PRIMARY JOB FUNCTIONS:**

**Primary Function**

This position will function as a lead developer to design and develop software to drive advanced solid imaging systems. These solid imaging systems involve mechanisms, electronics, controls, optics and imaging, software, firmware, material science, and process development. The person in this position needs to work with these technical disciplines in a team environment and provide software solutions. Development will involve programming processors and discreet devices, such as PLC, DSP, FPGA, etc. This will also involve implementing mathematical algorithms heavily to manipulate 3D images.

**Duties**

Design and develop embedded software. Test developed software for validation and verification. Troubleshoot and analyze software issues, and formulate solutions in new and existing products. Write design documents and other related technical documents. Strictly follow the software development processes employed by the group. Lead a small group of software developers and provide design and technical assistance. Provide technical support to the field support team when needed.

**JOB QUALIFICATIONS:**

**Education and Training:**

BS in Electrical and Electronics Engineering with software development background, or BS in Computer Engineering with EE background. BS in Mechanical Engineering with embedded software development experience will also be considered. Masters degree, a plus.

**Experience:**

5- 7 years of experience developing embedded software to drive hardware controls. Experience with CAD software, a plus.

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### **Knowledge, Skills & Abilities:**

#### Required:

- Solid experience developing embedded software including programming advanced electronics devices such as PLCs, DSPs, FPGAs.
- Successful completion of product development with exposure to all phases of product development life cycle.
- Solid experience implementing mathematical algorithms for 3D imaging applications.
- Programming experience using C, C++ languages and object oriented design techniques.
- Strong in employing formal software development processes.
- Solid experience using software configuration management systems.
- Excellent verbal and written communication skills.
- Strong team skills

### **WORKING ENVIRONMENT /PHYSICAL DEMANDS:**

The work environment characteristics and physical demands are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

### **SAFETY REQUIREMENTS:**

- Required to observe all safety standards and rules.
- Required to report all injuries to his/her supervisor and Human Resources within 24 hours.
- Personal protection equipment must be worn as required by the job.

### **CODE OF CONDUCT**

Required to adhere to the Company's Code of Conduct as a fundamental business practice.