

Software Automation Engineer

Location: Rochester NY, United States

Company Description

RAM Photonics has its headquarters in San Diego CA, with facilities in San Diego CA and Rochester NY. The company portfolio includes specialty optical and optoelectronic systems for defense, commercial, and industrial applications, including advanced signal processing, high-power laser, and instrumentation systems. RAM Photonics seeks capable, creative, and driven contributors skilled at communicating and performing within a technical team composed of leading photonics, electronics, and software engineers.

Job Description

The Software Automation Engineer will be responsible for development of and will contribute to the commercialization of a new class of technology for manufacturing high-power laser systems. The candidate is expected to: contribute to overall system specifications; design and code software for controlling robotic, electronic, and photonic systems and subsystems for handling and processing optical fiber; and mature subsystem and overall system code development for error-free manufacturability for taking technology to production. The exact title and level assigned to the position will depend on the candidate's experience and capability.

Experience Requirements:

- B.S., M.S., or Ph.D. in Computer Science or related field.
- At least 4 years of experience in automation programming.
- Track record of designing and implementing software for controlling complex systems.
- Relevant experience in control software development, including broad technical knowledge in instrumentation communication and control, communications protocols, electronic signal and data processing, and error handling.
- Experience in advance instrument control techniques, including robust error handling.
- Experience in integration and modification of existing control code and code blocks in multiple language platforms
- Experience in machine vision and coding decision making
- Experience in documentation, schematic capture tools, and version control.
- Structured coding capabilities in control algorithm and system design and development.
- Comfortable in the lab working with electronic and other instrumentation.
- A self-starter and team player with excellent communication skills.

Desired Skills:

- Programming experience in C++, Python, or other effective languages.
- Familiar with LabVIEW and other laboratory control software.

Qualified applicants should submit resumes with a cover letter to: employment@ramphotonics.com