RAM Photonics

Electronics Design Engineer/Lead

Location: San Diego CA, 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 lasers, 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 Electronic Design Engineer will be responsible for product development and commercialization of a new class of processing technology for advanced microwave/photonics system. A candidate is expected to contribute to the overall system specifications, drive hardware and firmware architectures, implement and test embedded hardware and firmware, and work with suppliers and manufacturers to design for manufacturability and take our product to production. The successful candidate will keep current with the latest research and advances in the field, help shape the direction of the hardware side of the company and be comfortable addressing new classes of broadly defined problems with little or no outside direction. The exact title/level will depend on the candidate's experience and capability.

Experience Requirements:

- M.S., or Ph.D. in Electrical Engineering or a related field.
- At least 5 years of professional experience in analog and mixed signal circuit design.
- Track record of designing and producing complex circuits with extensive experience in PCB board level design.
- Experience working with a team with different backgrounds and leading the electronics system design.
- Relevant experience in system architecture including broad technical knowledge in optics, opto-electronics, fiber optics, and microwave photonics hardware and firmware development.
- Experience with high speed (GHz-scale) circuit design including transimpedance amplifiers (TIA), automatic gain control (AGC), and ADC front-end.
- Experience with high-speed signal test and measurement techniques.
- Experience with schematic capture tools, version control, cultivating part databases, etc.
- Experience with digital signal processing.
- Structured modeling and hands-on capabilities in circuit design and development.
- Comfortable in the lab soldering and reworking boards when needed.
- A self-starter and team player with excellent communication skills.
- Modeling and simulation experience in MATLAB, python, or similar software.
- Familiar with at least one board layout package, preferably Autodesk Eagle.

Qualified applicants should submit resume, with cover letter, using the link below:

http://completepayroll.evolutionadvancedhr.com/JobApplication.aspx?jobpostingkey=c2be7799-6cff-4a5b-8580-8e8bc2be641a