

Electrical Engineer

EMAIL:

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Subject Line: Resume for Electrical Engineer

Job Description

ABOUT US

Radom is a global leader in advanced plasma technologies. We provide sustainable and innovative plasma solutions for industries including analytical instrumentation, clean tech, and hydrogen generation. Our products and instruments lead to safer processes, faster performance, and the reduction of pollution with the promise of continuing to detoxify our earth.

OVERVIEW

Radom is searching for an Entrepreneurial Electrical Engineer who will report directly to the Chief Engineer and provide leadership and broad Electrical expertise when it comes product development, design and Electrical engineering topics as related to Radom's current products and business development strategy. The ideal candidate will have a core competency in Product design with an emphasis in laboratory style instrumentation design, verification, and productization. A background in RF and High-power circuits is required while engineering high power plasma applications involving chemical processes in equilibrium and non-equilibrium plasma. Radom is particularly interested in candidates who can demonstrate analytical, experimental and practical hands-on skills and can thrive in a fast-moving applied research and new product development environment.

RESPONSIBILITIES

- Research, design, develop, and evaluate electrical and electronic assemblies, products, and systems by using applied electrical engineering principles, including RF, digital/analog electronic circuits and sensors.
- Create prototypes and evaluate design to ensure conformance with engineering specifications.
- Conduct feasibility assessments and perform failure analysis studies to ensure design performs as expected.
- Evaluate cost and maintenance requirements of design. Work with fabrication and manufacturing departments/vendors to ensure final design is properly executed in the creation of electrical assemblies.
- Create and interpret technical drawings, and schematics.
- Create PCBs and PCBAs in Altium.
- Manage project schedules and budgets. Approve designs that can impact the health, safety, and welfare of the general public, as required by law.
- Electrical circuit modeling in PSpice
- Electro-magnetic simulations using HFSS
- Data analysis using Matlab or similar software
- Experience with instrumentation design.
- Self-motivated to generate software tools to aid in fixturing and testing

- Programming skills in C++/C, Python
- Embedded circuit design using Microchip IDE.

QUALIFICATIONS AND EDUCATION REQUIREMENTS

- B.S. or MS in Electrical Engineering or related field with 3+ years of industrial and commercial experience.
- Core competency in: Instrumentation design and development
- Solid understanding of electrical circuits, RF circuits, antenna theory, electro-magnetic fields propagation theory, microwave circuits
- Ability to code in C/C++, Python and similar
- Ability to plan, design, setup, electrical engineering experiments
- Ability to direct and assist in engineering activities outside of core competencies as the relate to the success of product development.
- Familiarity with compliance standards for instrumentation in laboratory environments