



Product Development Engineer

Job description

The Senior Staff Product Development Engineer is responsible for analysis, development, and manufacturing release of new HiRel components for power distribution, power management, and motor drive products used in high-reliability applications for the defense and aerospace markets. In this role, you will support the development of new Radiation Hardened Integrated Circuits, Gallium Nitride Field Effect Transistors, and HiRel Power Modules. This includes coordinating prototype builds, developing documentation for manufacturing and test, assisting with radiation testing, data analysis, reliability testing, and Qualification.

In your new role you will:

- **Own the New Product Development** activities for specific products from initial prototyping through Qualification
- **Hands on development of all related documentation** to support production release.
- Work closely with Process and Test Engineering to insure that fixtures and equipment are developed to insure repeatable manufacturing processes and test results in new products.
- **Analyze yield and test results**, create reports to distribute this information to stakeholders
- **Work closely with chip and package designers** to insure that the end product meets all design expectations. Propose and manage the creation of new product datasheet specifications
- **Conduct Design Verification Reviews** per applicable design guidelines
- **Specify equipment, materials, and supplies** required for completion and implementation of technical projects
- Coordinate and/or participate in meetings with management, suppliers, and/or customers to review design concepts and communicate technical information
- Work closely with Process and Test Engineering to establish repeatable processes and test results in new products

Profile

You regularly take the initiative and have the ability to lead cross-functional teams. You are goal-oriented and structured in your working style. Additionally, you will bring superior analytical and problem solving skills to the team.

You are best equipped for this task if you have:

- Bachelor of Science in Electrical Engineering (minimum) with 4+ years hands-on experience in a production environment, preferably working with power electronics and power semiconductors
- Experienced in analog and power circuit analysis

At a glance

Location: **Leominster, MA**
Job ID: **309005**
Start date: **immediately**
Entry level: **3-5 years**
Type: **Full time**
Contract: **Permanent**

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- Ability to design circuits for electrical test and reliability evaluations working hands on with both lab based benchtop and automatic test systems
- Familiar with “double pulse”, “dynamic R_{dson}”, and similar application test circuits
- Familiar with concepts such as Worst Case Analysis, Parts Stress Analysis, MTBF Analysis, Design Failure Mode and Effects Analysis, and Process failure Mode and Effects Analysis
- Strong analytical and problem solving skills
- Structured working style, goal oriented and will take the initiative

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Our leading-edge power devices make chargers, adapters, power tools and lighting systems smarter, smaller, lighter and more energy-efficient. Our trusted sensors increase the context sensitivity of “things” and systems such as HMI, and our RF chips power fast and reliable data communication.

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