



Power Electronics Designer – Job Description

Role:

To develop power electronics products including; circuitry and firmware from concept through to manufacture; meeting safety, reliability, cost, manufacturing and performance requirements.

Responsibilities:

- Develop power electronics product including circuitry and firmware from concept through to manufacture, meeting safety, reliability, cost, manufacturing and performance requirements.
- Participation in development, testing and approval of complex electro-mechanical systems.
- Prototype design and verification
- Plan and execute verification and validation activities.
- To develop new product using modular approach maximizing reusability and efficiency.
- Preparation of technical and regulatory documentation, including production documentation, BOM, manuals, test instructions etc.
- Use computer assisted engineering and design software and tools to perform engineering tasks.
- Participate in design reviews, project meetings and time/cost budgeting.
- Communicate with different parties – customer, vendor, internal engineering and manufacturing; to ensure product meets customer specifications, and quality standards.
- Meeting project schedules, deadlines and budgets.
- Order components, tools and services as required for product and prototype development

Education and Experience:

- Bachelor degree in Electronics Engineering
- 5+ years' experience in motor control, switching power supplies, DC/DC converters, or other power electronics
- Experience using design software i.e. Altium is an asset
- Requires a working knowledge of designing analog and digital devices from concept
- Possesses strong analytical, organizational, and problem solving skills
- Goal-oriented, self-motivated, and able to work with minimal supervision