



Responsibility and Authority (Job Descriptions)

Job Title	Sustaining Engineer, Power Electronics
Reporting to	Director of Hybrid Power Electronics
Essential Duties and Responsibilities	<p>This engineer will function as a member of the Power Electronics Group and will also interface on a daily basis with the AZD Manufacturing and Quality Departments.</p> <p>The principal responsibility of the position is to provide sustaining engineering support for AZD product that has been released to production. Additionally, this position will include design tasks leading up to the launch of a product.</p> <p>Anticipated duties are as follows:</p> <ul style="list-style-type: none">• Root cause analysis of failed components, such as inverters, DC-DC converters, battery chargers and motors• Trouble-shooting of circuit boards• Regular participation in material review board (MRB)• Development of solutions to design, and manufacturing, and field/customer problems• Recommendation and development of test equipment• Recommendation of process improvements• Assistance with Advanced Product Quality (APQP) , including DFMEAs and PFMEAs• Assistance with design of experiments (DoE)• Assistance with process validation• Assistance with supplier development• Other related duties as assigned.



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Education, Specialized Training and Experience Required

Skills/Knowledge/Ability:

- Hands-on experience with power converters is required
- Good trouble-shooting skills are essential
- Experience with schematic capture and board layout is required
- Proficiency with Altium (PCB CAD package) is desired
- Proficiency with SolidWorks (ME CAD package) is desired
- Experience with motors and generators is desired
- Automotive experience is preferred
- Six-sigma training is desired
- A high level of initiative and proactiveness is required.
- Good communication and presentation skills are required.
- Strong organizational and time management skills are required.
- Strong analytical capacities are required.
- Occasional travel is required.

Education/Certification:

- An MSME/EE with emphasis on power electronics and a minimum of 5 years related experience OR a BSME/EE and a minimum of 10 years related experience is required.