

Hybrid Motor Generator Product Development Engineer (Junior level Engineer) #383

Responsibilities

JOB SUMMARY:

The Hybrid Product Engineer is responsible for the design and documentation of hybrid products. The Hybrid Product Engineer creates product specifications consistent with customer requirements, coordinates drafting and testing activities, and interacts with manufacturing engineering, purchasing, and suppliers.

DUTIES AND RESPONSIBILITIES:

1. Responsible for prints and other product-related documentation, such as torque specifications, test specifications, and material specifications.
2. Design products to meet customer specifications in a cost conscious manner. Work with advanced engineering team in early phase of a project.
3. Perform tolerance stack-up analysis.
4. Coordinate further analytical work, such as finite element analysis, with Forward Engineering group.
5. Work with manufacturing engineering and Product Launch Center to build initial samples.
6. Establish validation plans together with the test engineer and initiate testing by writing lab orders. Review lab results and lab reports upon completion of testing. Issue test reports for customers, based on internal reports.
7. Participate in production start-up and related training. Communicate product requirements to manufacturing engineers and plant team.
8. Participate in trouble-shooting failures during start-up in plant and implement design changes as appropriate.
9. Create product engineering specific timing plans and track progress (design, testing, etc.)
10. Create and update DFMEAs, participate in PFMEA activities.
11. Work with purchasing on supplier selection, process PPAPs and maintain IMDS database.
12. Work with prototype buyer on procurement of prototype parts.

Qualifications

SPECIFIC SKILLS REQUIRED TO PERFORM THE DUTIES OF THE JOB:

- Ability to travel at least 10% is required
- Organized and structured work-style and attention to detail required.
- Must be able to work independently.
- Excellent verbal and written communication skills in English language are a must.
- Strong PC knowledge and experience is essential.

EDUCATION AND EXPERIENCE:

- BSME or BSEE is required
- Automotive / vehicle component development experience preferred
- 2+ years of experience with electric motors or generators.
- Experience with high voltage products and testing preferred (~1000 volts)

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