Electronic Product Validation Engineer

Company Name: Varroc Lighting Systems  Company Location  Plymouth, MI, US

DEPARTMENT: Product Development Engineering

REPORTS TO: Engineering Manager

Responsibilities

- Review customer requirements during pre-award and early product design phase and develop validation plans to satisfy customer specifications (including EMC and environmental electronic testing plans).
- Conduct customer reviews of the test plans and obtain final customer approvals.
- Support customer quote efforts by providing cost estimates for ENV and EMC testing.
- Preparation of reliability analyses for customer (reliability calculations).
- Coordination of design verification and product validation testing and communication of results.
- Work with product engineering to ensure parts assigned for validation are of the proper build level and expected quality.
- Track first time through (FTT) metric for each test plan.
- Collaborating with engineering, quality and warranty groups on common failure modes to ensure any additional Varroc screening or robustness test are added to the internal ENV and EMC plans.
- Support review and sign-off on pre-production part builds to verify parts to be sent to customers will meet engineering quality expectations.
- Lead the test fixture development process: test fixture specification, sourcing, build and approval, in collaboration with PD and Quality engineers.
- Lead collection of necessary test boxes, interface boxes, wire harnesses and other hardware necessary to perform the testing.
- Prepare specifications (from existing test plans) to support outsourced testing, as required.
- Maintain Varroc’s database of customer and industry validation specifications.
- Support test plan development for engineering changes and cost reduction investigations.
- Support Continuous Improvement process to keep updated documents related to product validation, such as: Test Readiness Checklist, Design guidelines, Standard Templates development, DVPR baselines, etc.
- Cooperation and information sharing with international VLS team (America, Europe, India, China). Active participation/support on problems solving in all VLS locations.

Education Requirement(s)

- BS in engineering or equivalent required; electronic, electrical engineering preferred

Experience Requirements

- 5 years minimum related experience preferred
• Experience preparing ENV and EMC test plans is required (Test Plan, DVPR or other format).
• Experience working with electronic components per automotive industry
• Knowledge of LED applications, electronics integration and EMC.
• Knowledge of electronics handling and end-of-line testing (EOL) is a plus.
• Knowledge of typical electronics phenomena such as ESD and EOS.
• Strong interpersonal and communication skills required. Experience interfacing with automotive OEMs is desired. Ability to work with multiple teams is critical.
• Demonstrate professional behaviors and attitudes while performing job responsibilities and in communications with the customer, coworkers and supporting/interfacing organizations.
• Must be a team player and be able to give accurate status and progress reports on assigned program/project.
• Proficiency in Microsoft Excel and PowerPoint expected.
• Must have strong language skill – both conversational and technical (English, Spanish, Portuguese is a plus).

**Additional Information**

• Occasional overtime/travel may be required as dictated by program milestones

**Job poster**

**Carrie Fontana-Preston**

Corporate Human Resources at Varroc Lighting Systems

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Job Poster Location
Greater Detroit Area