

RESUME

Contact Information:

Murari Divya
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Professional Summary:

As a Junior Engineer in the Non-Conformance Analysis Department at M/s. Medha Servo Drives Pvt Ltd, Hyderabad, I have accrued six years of extensive experience specializing in identifying, analyzing and resolving non-conformances within products and processes. My responsibilities encompass conducting thorough investigations, implementing corrective actions, and actively contributing to continuous improvement initiatives aimed at enhancing overall product quality and organizational efficiency.

Key Roles:

- I possess strong proficiency in Root Cause Analysis and adeptly utilize the 8D principle to identify the root causes of failures and implement preventive measures to mitigate recurrence in the future.
- Based on comprehensive evaluations of failures, I provide recommendations for product enhancement across design, inspection, and manufacturing processes.
- Having knowledge in managing the eBOM and understanding the makeup of product costs.
- I'm skilled in analyzing system malfunctions and proficient in troubleshooting to resolve issues effectively.
- I am proficient in developing and executing test cases and plans, followed by proposing the subsequent steps for in-depth failure analysis.
- I work closely with the operations team to develop manufacturing tests, ensuring they meet quality standards and operational goals.
- I possess comprehensive expertise in Component Engineering, which involves analyzing component specifications, selecting, evaluating, and managing various electronic components such as active and passive components, semiconductor devices to ensure they meet the specific requirements of a project.
- I utilize SAP to retrieve trend analysis data, enabling informed decision-making and strategic planning.
- I am proficient in calculating FRPCPY (Failure Rate per Component per Year) and MTBF (Mean Time Between Failures) for products, providing valuable insights into their reliability and performance metrics.

Technical Skills:

Good Knowledge on:

- Working of critical safety systems such as the Electronic Interlocking System, Train detecting devices (SSDAC & MSDAC)/ Locomotive Wheel Counting System and Train Collision Avoidance Systems (TCAS/KAVACH).
- Working of IGBT-based 3-Phase drive propulsion equipment, encompassing Line and Traction converters, Auxiliary Converters, and Vehicle Control Units, is specifically designed for WAG9, WAG9H, WAP7, and WAP5 Electric locomotives.
- Working and efficient operation of Electric Multiple Unit (EMU) and Vande Bharat train sets.
- Working and efficient operation of Train Control Management System (TCMS) for Electric Multiple Unit (EMU) and Vande Bharat train sets.
- I possess a deep understanding of how locomotives and EMUs are powered, including the methods of propulsion such as diesel engines and electric motors.
- I am knowledgeable about designing and testing digital input, digital output and Power supply cards, which involves understanding the hardware components and processes involved in creating and ensuring the functionality of these essential components used in various electronic systems.
- Having basic knowledge of power devices including IGBTs, MOSFETs, Transistors provides a foundational understanding of their roles and applications in electronic circuits and power systems.
- Having knowledge of the operation of 3-phase and tap changer locomotives involves understanding their unique propulsion systems.
- Having knowledge of SMPS (Switched-Mode Power Supply) topologies, including Buck, Boost, Buck-Boost, Flyback, and Forward converters, encompasses understanding their respective operating principles and characteristics.
- Having basic knowledge of Thyristors and Avalanche rectifier diodes involves understanding their roles in electronics.
- Having knowledge about Transformers involves understanding their fundamental principles and operation.

Additional Skills:

- Computer language – C
- Digital Electronics – Logic Gates, K-map, Registers, counters, Micro-controllers, Microprocessors
- Awareness on handling of ESD components
- Knowledge on PCB Assembling process
- Knowledge on working & commissioning of Trains sets and Safety Critical Signalling equipment
- Basic knowledge on SAP
- MS Office
- 2 out of 2 architecture designing, Safety Integrity levels

Work Experience:

- From May 2017 to February 2019, I began my professional journey as an Apprentice, where I gained valuable hands-on experience and foundational knowledge in the field.
- From February 2019 to October 2022, I transitioned into the role of a Technical Assistant, where I took on more responsibilities and actively contributed to various projects within the organization. During this time, I honed my skills and gained practical experience in technical support, and problem-solving.
- In October 2022, I was promoted to the position of Junior Engineer, marking a significant milestone in my career progression. As a Junior Engineer, I am responsible for undertaking more complex tasks, participating in engineering projects, and providing technical expertise in my area of specialization.

Education Qualification:

Qualification	Board / University	Year of Passing	Percentage
Diploma in Electronics and Communication Engineering	SBTET, Andhra Pradesh	2017	94.96
Secondary School Certificate (SSC)	SSC Board, Andhra Pradesh	2014	8.0 CGPA

Personal Information:

- Name : Murari Divya
- father's Name : Murari Veera Raghavaiah
- DOB : 26/08/1999
- Gender : Female
- H. No : 1-4-1
- Languages Known : English, Telugu, Hindi
- Hobbies : Reading Books, Listening Music

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Place: Hyderabad

Divya Murari