Anand Mhetre

Wiring Harness Engineer

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anandsureshmhetre@gmail.com

Mobile
8600880452

Total work experience
5 years 9 months

About me

Experienced engineer skilled in R&D, quality, and wiring harness engineering. Strong problem-solving and critical thinking abilities. Proficient in CAD and simulation software. Results-driven with a passion for delivering high-quality solutions.

Core Competencies

- Catia V5 ★★★★
- Capital Harness ★★★★
- Creo ★★★
- 2D Drawing ★★★★
- 3D Routing ★★★★
- Windchill ★★
- Minitab ★★
- Capa ★★★★
- Deviation Management ★★★★
- Change Management ★★★★

Profile Summary

An Electrical Engineer willing to work with a growing organization. Where I can utilize my technical knowledge, skill and enjoy my job to serve the organization and enhanced the same.

Education

2022 — **B.Tech/B.E.**
SPPU
7.2/10

2017 — Diploma Electrical Engineering
65-69.9%

2013 — **10th,**
Maharashtra,
65-69.9%

Work Experience

2020 - Present

Wiring Harness Engineer
VAN LOGIX

- Hands on experience in CATIA V5 R21 (Part Design, Assembly, Drafting, Flattening & 3D Routing).
- Good understanding & Preparation of 2D Drawings & 3D Routing.
- Understanding of component selection criteria for electrical components such as Wire, Relay, Fuse, Connectors, Terminals, etc.
- Passive component selection such as wire harness protections
- Knowledge about circuit schematics.
- Route the Wiring Harness as per requirement.
- BOM & Wire List Preparation. Expertise
- in harness design, including

Internal Audit ★★★★

DFMEA ★★★★

DMAIC ★★★★

RCA ★★★★

Technical Skills

- Electrical and mechanical design
- Material Selection
- Manufacturing process knowledge
- Strong problem-solving abilities
- Effective communication and collaboration with cross-functional teams
- Ability to manage multiple projects simultaneously
- Analytical and critical thinking skills
- Value Analysis and Value Engineering
- Quality control and assurance

Personal Information

Date of Birth	01-June-1997
Address	Near Adth Line Shivaji Nager Nilanga.
City	Pune
Country	INDIA
Marital Status	Single / Unmarried

Crimping, soldering, and heat-shrink techniques.
- Experience with wire harness testing and validation, including hi-pot testing and continuity testing.
- Familiarity with automotive, aerospace, and industrial wiring harness applications.
- Strong problem-solving and analytical skills.

2019 - 2020

Jr. Engineer

Stanley Black & Decker

- Troubleshooting: I will be expected to troubleshoot any issues that arise during the production process, working closely with the manufacturing team to identify the root cause of the problem and find a solution.
- Developed an additional testing phase which increased efficiency and decreased ppm defects.
- Collaborating with cross-functional teams to drive continuous improvement.
- Maintain & drive the MOC documentation.
- Plan As well as Generate the power tool Conformance Testing and prepare tear down report.
- Overall, as a Junior Engineer responsible for power tool motor quality, my role is critical in ensuring that the organization delivers high-quality products that meet customer expectations and comply with industry standards and regulations.

2018 - 2019

Associate

Stanley Black & Decker

- Inspection of new development parts and highlighting quality issues.
- Process audit: planning, execution, reporting, and follow-up.
- Rework as well as Rejections analysis provide the corrective actions.
- Monitoring PPM and Provide actions with CFT team.
- Preparing & publishing monthly reports as well as daily reports.

2017 - 2018

Trainee

Stanley Black & Decker

- Collaborating with cross-functional teams, including engineering, manufacturing, and quality, to ensure project timelines and objectives are met.

- Preparing technical reports, presentations, and other documentation to communicate project results and status updates.
- Participating in design reviews, testing and analysis, and troubleshooting activities to support product development and improvement efforts.

Van Logix Projects

1) Head Lamp Cutout

- Market Available product benchmark Study
  Variant-1 H7 Bulb type
  Variant-2 H4 Bulb Type
- Tear Down Analysis of (2 Product).
- Cost Analysis
- Design activities for VAVE-Cost Reduction
- USP Development -Fitment/Extra Part.
- Installation
- 2D Drawing
- Wire list preparation & BOM Preparation
- Validation
- Bench Level-Functional Testing
- Installation process, Manual step's
- Proto part manufacturing Support.
- Failure Analysis.
- Drawing modification & Change Management
- Launch of product
- Support for coasting & Tech marketing.
- Market Failure Analysis-3 month

2) Panic Button Switch

- Identified the panic button switch and the alarm or emergency response system you want to connect it to. Determine the electrical requirements for each component, such as the voltage, current, and wiring connectors.
- Find out the appropriate wiring components, such as wire, fuse, relay connectors, and terminals that can handle the electrical requirements of the panic button switch and alarm system.
- Created a wiring diagram that shows how the wiring harness will be constructed and how each component will be connected.
- Cut and strip the wire to the appropriate lengths and attach the connectors and terminals as required by the wiring diagram.
- Tested the wiring harness to ensure that it is functioning properly and transmitting signals between the panic button switch and alarm or emergency response system.
- Wiring harness Install in the appropriate location, ensuring that it is secure and protected from damage.

3) Lab Car Wiring Harness

- Market Available product benchmark Study
- Tear down Analysis of (2 Product).
- Detailed electrical analysis.
- Created wiring diagrams and schematics to determine the optimal wiring configurations, connectors, and wire gauges to meet project requirements.
- Design activities for VAVE-Cost Reduction.
- Ensured compliance with relevant industry standards and regulations, including automotive electrical systems and safety requirements.
- Worked closely with project team members, including engineers, technicians, and fabricators, to ensure successful integration and installation of wiring harness.
- Conducted testing and troubleshooting to identify and resolve issues with wiring harness, ensuring optimal performance and reliability of Lab Car.