

MAGESH N

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Objective

Aspiring for professional enrichment opportunities in Design and Development with a growth-oriented organization of repute .

Qualifications

Bachelor's in Mechanical engineering with a solid **8 years of experience** in Automotive product design & development domain.

Technical competencies

- Dynamic professional experience in **CATIA V5/ V6, ENNOVIA V6, 3D Experience, (Electrical Harness Assembly & Installation, Part design, Assembly design, GSD), Capital Harness XC ang JIRA.**
- Electrical Integration and Harness design with CATIA V5&V6 and ENNOVIA V6.
- VA/VE Proposal and validation (Cost optimization).
- Expertise in DMU Vehicle and EE Components packaging.
- I have handled 3FTE for support to harness design & proposal activities.
- Preparation of PFMEA and DFMEA.
- Basic knowledge on duct & bracket (Sheet metal) design for harness holding.
- Competitor product benchmarking & Performing SWOT analysis, Identifying USP's.
- Powerful usage of Microsoft Excel (VOOLKUP, creation of table,pivot table, charts) and Microsoft PowerPoint.

Work experience

Renault Nissan Technology Business Center India Pvt Ltd

July 2018 - Present

Engineer - Wiring Harness: Passenger cars & Commercial Van (CAPTUR, MASTER)

Tools Used: ENNOIVA V6 (CATIA V6)

- I have experienced in Electrical wiring harness design (LV & HV Cable) & development lifecycle for ICE and EV Vehicle.
- I have completely worked Harness development life cycle for Upstream milestone, Development Milestone and industrial milestone.
- Freeze the definition of dynamic buckles harness (Harness routing between Body & Engine).
- Experienced in choosing of harness protection & support based on environment condition (Thermal, Vibration and Water entry zone)
- To maintain the digital quality of harness including Device mapping, network analysis, wire routing & XML generation for CHS Export.
- Interprets schematics and wire list details to create wire harness engineering.
- Drawing review with supplier considering 3D harness data for Connector, fixation, length & Protection verification.
- Develops and maintains wire harness assembly and installation engineering documentation.
- I have participated in PMDR through MS Teams & Find the resolution of PMDR Issues.
- VA/VE Ideas generation & implementation to reduce the Vehicle electrical BOM cost
- Awarded for VA/VE Proposal and working on agile mode to achieve QCDP for the project XDD VSF

Layam Groups deputed by Ashok Leyland

September 2016 — June 2018

Design Associate – Vehicle Electrical & Electronics (RWD 15m COACH BUS)

Tool Used: CATIA V5, 3D EXPERIENCE and Capital Harness XC

- Electrical components package based on function and protection requirements. All ECU (EBS, ECAS, AT, EDC & Hydro-static) & BCU Packaged based on IP requirement.
- Chassis electrical Component's package like Head lamps & Tail Lamps, Battery, Isolator Switch, Current sensor, Dashboard Switches, Horn, Inverter (AC Load), Cluster, Ignition SW and ECU's.
- Body electrical components package like Multimedia Components, Infotainment components, Exterior top roof lamps, interior lamps, Side repeater & Side marker lamps, TV, 3Pin socket, Camera, Display board, Wiper motor and RPAS.
- Input sheet (Technical specification) preparation for Electrical component development & supplier follow-up.
- Discussion with relevant interface team members to arrive the conclusion on packaging finalization. Interface signoff completion with relevant stake holders.
- Wiring Harness topology preparation (Main harness, Frame harness, EBS harness, ECAS harness, Hydro- static harness, AT harness & EDC harness) and preparation of mark-up diagram based on **DFM, DFA & DFS**.
- Interact with Vehicle integration team to converge the harness design (Clip interfaces, Grommet interfaces & Harness convergence)
- Interact with schematic team for circuit details discussion & finalized inline connector requirements based on needs.
- Harness Drawing preparation with help of **Capital harness XC** and sent to supplier for manufacturing.
- Interaction with supplier to develop the wiring harness & electrical components
- Electrical design release for wiring harness & components through PLM Life cycle
- Physical Harness mountability check at chassis level & resolve the issues.
- I have completed 37 Harness with help of 2 designers (Body & Chassis Harness)
- I have support to build the first proto chassis level harness & crank the engine successfully

SNY Autotech Pvt Ltd.

August 2014 - August 2016

GET - Production Department

- Managing DRM for the machines I am responsible (VMC (8), HMC (2) and SPM (1)).
- Resource planning and Optimization (Man, Machine, Material and Method).
- Production level inspection, creation, and maintenance of Report.
- Study of regularity and concept embedded in massive data from inspection report. Calculation of maintenance of average of tool life.
- Preparation of PFMEA, Production plan and process implementation.

Education

Bachelor's in Mechanical Engineering

August 2010 — August 2014

SBC Engineering College - Affiliated to Anna University

Completed my bachelor's degree with First class awarded by Anna University.

Higher Secondary Education

August 2009 — April 2010

St Joseph's Boys Higher Secondary School

Completed Higher Secondary Education with 73.9% under State Board of Tamil Nadu.

Senior Secondary Education

August 2007 — April 2008

St Joseph's Boys Higher Secondary School

Completed Senior Secondary Education with 74.8% under State Board of Tamil Nadu.

Interests

Professional oriented

Design with PMDR validation.

Design with manufacturing and process feasibility.

Personality oriented

Taking part in farming activities with family during weekends.

Watching cricket and listening to music

Personal Profile

Father's Name: Narayanan K.

Date of birth: 09June1993.

Languages known: Tamil and English.

Marital Status: Married and I have two kids.

Address: #459/4, Kaliyamman Kovil Street, Athurai village, Tiruvannamalai – 606902.

Declaration

I declare that all the above-mentioned statements are true to best of my knowledge

SIGNATURE

Magesh NARAYANAN