



Pulavendran Boominathan
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Expertise

- ✓ Automotive electrical wiring harness design
- ✓ Electrical Schematic design
- ✓ Fuse, relay & wire size calculation
- ✓ Harness design (3D & 2D)
- ✓ E&E failure support
- ✓ VA/VE workshops and ideas
- ✓ EE components DMU packaging

SKILLS

Schematic and Harness design Tools:

Capital Harness XC	■	■	■	■	■
VeSys Classic and 2.0	■	■	■	■	■
PRO-Diagram	■	■	■	■	■

CAD Tools:

Pro – E	■	■	■	■	■
Creo 8.0	■	■	■	■	■
NX 12.0	■	■	■	■	■
CATIA V5	■	■	■	■	■
SoildWorks	■	■	■	■	■

PLM Tools:

Team center 10.1	■	■	■	■	■
3D Experience	■	■	■	■	■

Pulavendran Boominathan

Vehicle Electrical Wiring Harness Design Engineer

SUMMARY OF PROFESSIONAL EXPERIENCE

- ✓ **8+ years** of experience in **Automotive Electrical Vehicle Wiring Harness** architecture design, harness topology design, fuse, relay and wire sizing (voltage drop) grounding and splicing strategy, selection of connector, terminals, wires and cables type, harness coverings, battery lug, grounding terminals, rubber grommets, mounting clips.
- ✓ Proficient in supplier co-ordination, **Integration of E&E Components, harness drawing and bom preparation**, drawing RFQ release, harness design for manufacturability (DFM) / design for serviceability (DFS), harness fitment trail process and pilot validation.
- ✓ Good experience in wiring harness **2D Drawing** creation using **Capital XC** and capital harness database internal part number creation for connector, terminal, battery cable, wire with supplier component drawing.
- ✓ Good experience in wiring harness manufacturing area and validating the proto type harness.
- ✓ Hands on experience in **3D Routing** using **CAD tool** for the electrical wire harness and 2D harness manufacturing drawing creation.
- ✓ Good Experience in benchmarking, **VA/VE Workshop** for cost and weight optimization.
- ✓ Experience in **DMU packaging** for EE components.

MAJOR ASSIGNMENTS

- **Electrical Schematic & Wiring Harness Design for Passenger Car (STELLANTIS-PSA)**
 - ✓ Database creation for component in CHS Software.
 - ✓ 2D Drawing layout creation for Harness XC and RFQ preparation of wiring harness for conventional cars.
 - ✓ Harness component selection for connector, terminal, seal, clip and grommet.
 - ✓ Supporting and resolving the field issues during vehicle build phase
- **Electrical Schematic & Wiring Harness Design for Bus variant (DAIMLER INDIA)**
 - ✓ Designing the Electrical Wiring harness for 9T bus body wiring harness for all variant (AC, NON AC, School, Staff & Tourist) and FUSO LHD vehicles & 16T variant.
 - ✓ Responsible for giving inputs for designing of wiring harness based on new market, customer & legal requirements. Handling of legal requirements for buses (AIS-153, AIS-135).
 - ✓ Experience in Wiring harness fitment trail and validation on proto and testing vehicles. Verifying the vehicle BOM with respect to new variant.
 - ✓ Resolving field quality issue and supporting the after sales team.

INDUSTRY EXPERIENCE

- ✓ Automotive
- ✓ Aerospace
- ✓ Wiring Harness Manufacturing
- ✓ Construction and Mining Equipments
- ✓ Agriculture Equipments
- ✓ Bus(9T, 16T, 24 T)& Truck (MDT,HDT,TF-TITAN)

WORK EXPERIENCE

- ✓ Umlaut GMBH (June 2022- Present)
Client – Airbus
- ✓ TCS (June 2021- May 2022)
Client – Stellantis (PSA)
- ✓ RLE International (Aug 2019 – April 2021)
Client – DAIMLER INDIA
- ✓ Axiscades (March 2019 – Aug 2019)
Client – DAIMLER INDIA
- ✓ Motherson Sumi Systems (July 2017 – March 2019)
Client – DAIMLER INDIA
- ✓ Axiscades (July 2015 – Dec 2016)
Client – CATERPILLAR
- ✓ Caresoft Global Pvt Ltd(June 2013 to Jul 2015)
Client – Case New Holland (CNH)

EDUCATION

Bachelor of Engineering (B.E) in

ECE (2007 – 2011)

- ✓ Syed Ammal Engineering college, Ramanathapuram.
- ✓ 70% (First Class)

LINGUISTIC PROFICIENCY

English (Proficient)



➤ Electrical Wiring Harness Manufacturing Design for Bus and truck variant (MOTHERSON SUMI SYSTEM)

- ✓ Responsible for BS4& BS6 wiring harness manufacturing design and development.
- ✓ Responsible and preparing for RFQ bom based on costing requirement.
- ✓ Responsible for to check the client drawing connectors, terminals, seal, wire, insulation, clamps, protection cover, tape and to interact with customer to resolve the wiring harness queries and development.
- ✓ Responsible for design and development of wiring harness drawing in capital harness and share the data to production team to develop the wiring harness.
- ✓ Preparing and inspection of master sample harness of products referring client drawing and quality standards. Finalizing the packing of the harness.

➤ Design Development support for Hydraulic excavator (HEDC-CATERPILLAR)

- ✓ Assembling and routing of electrical wiring harness for CAT excavator's model and schematic circuit design parametric change for scope.
- ✓ Creating Harness Drawings with flattened harness views and bundle, cable lengths, Circuit data table, connector tables and other tables that are required on the drawing
- ✓ Checking the Drawings with Current Standards.
- ✓ Co-operate with project members and Interaction with customer for the smooth flow of the project and follow up till the Package delivery.

➤ Design support for the component and Tractors Harness creation (CNH)

- ✓ Design support for electrical component database preparation.
- ✓ Creating Harness Drawings with all necessary table like Wire table, Connector tables and other tables that are required on the drawing using VeSys 2.0.
- ✓ Worked on Schematic & 2-D Harness Creation using VeSys 2.0.
- ✓ Designing the concept routing path new product development for baler machine with entire vehicle.
- ✓ Finalize the routing path creation with client approval and create the 2D drawing same.

PLACE: Germany

DATE:

(Pulavendran Boominathan)