**RESUME**

BALABOINA HARISH

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**Career Objective:**

Seeking for opportunities and secure a position where I can efficiently contribute my skills and abilities for the growth of the organization and my professional career.

**PROFESSIONAL EXPERIENCE:**

Total 3 years of experience in product design and development of wiring harness of **B**uses and Trucks , Construction and forestry Equipment’s.

Working as Design Engineer in CYIENT, in Hyderabad from June 2018 to till date.

Working as Design Engineer in HINDUJA TECH as a payroll of SKP from November 2017 to June2018.

**DESCRIPTION:**

Project involves modeling of components, wiring harness routing for heavy commercial vehicles, Off highway machinery and assembly of electrical components.

Design of schematics and wiring diagrams using Capital Harness.

**PROJECTS CARRIED:**

**1. WIRING HARNESS ROUTING FOR HEAVY MACHINERY.**

CLIENT : **JOHN DEERE**.

Creation of Electrical wiring harness for different construction and forestry equipment’s Tracked Feller Bunchers and tracked harvesters (903M ,953M,959M TFB and THV), 959ML,437-E Knuckle boom loaders.

**ROLES AND RESPONSIBILITIES**:

* Routing of harness/power cables in 3d environment using Creo.
* Packaging electrical components as per design review meetings.
* Creating wiring Layout in IP based on components schematics(logic) diagram.
* Creating Logic, Integrator and Harness XC drawings in Capital harness .
* Developing harness design solutions with in a cad environment.
* Wire Packaging in 3D using NWF or XML, designating connectors, Splice balancing in harness and designing brackets at required location.
* Responsible for selection of connector, wires, terminals, connectors for electrical devices, covering type, Hardware as per requirement based on suppliers.
* Provide immediate response and timely resolution to design related production issues encountered during the build process.
* Creating harness drawing in CAPITAL HARNESS XC by synchronizing and Quality check through DRC to clear errors.
* Checking of all seals, plugs and terminals with respect to wire gauges and devices.
* Creating sheet metal components as per the sheet metal design considerations.
* Product life cycle management through Windchill.
* Provide documentation and make technical presentation as required.
* Create and release engineering drawings and bill of materials using Engineering Change Management process.
* Participate in design reviews as required – from concept phase to release.
* Project Coordination with onsite engineer and process partners.

**2. WIRING HARNESS ROUTING FOR BUS AND TRUCKS (MBP)**

CLIENT : **ASHOKE LEYLAND**.

For the Different model buses, In every module of a bus has to be routed for Engine harness, Frame harness, body harness, Main harness, Body exterior harness without having any clashes and material wastage.

**ROLES AND RESPONSIBILITIES**:

* Discussing the modification of design with client in order to accomplish better serviceability and maintenance condition.
* Collecting data for standard parts and dimensions.
* Creating sheet metal components as per the sheet metal design considerations..
* Expertise in routing of Engine harness, Frame harness, Main harness, Body harness, SOS harness, Body exterior harness in Catia V6 and Catia V5.
* Preparation of installation drawings.
* Flattening of connected wires on FORM BOARD using Electrical Harness Flattening module.
* Routing wires from the supports using ELECTRICAL HARNESS ASSEMBLY module.
* Creating publications for the components in order to ease up the assembly.
* Selection of electrical connectors as per the requirement.
* Adding protective covering to the routed wires according to client’s specification.
* Using computation in ELECTRCIAL WIRE ROUTING module.
* Understanding the requirements routing of wiring harness as per the design guidelines.
* Routing the electrical wires without clashing.
* Proposing new ideas on cost reduction factor.

**3.SIEMENS Transportation**

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| **PROJECT** | **:** | **HV  LV Harnessing for Portland 6 also called as TM6 (TriMet type 6) LRV project.** |
| **Description** | **:** | **Meant to have a Luxurious & SAFE mode of travelling, facilitating with comforts & proper hazard optimized manufacturing.** |
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**ROLES AND RESPONSIBILITIES:**

* Understanding and retrieving the data from the layouts provided and analyzing the scheme of data.
* Preparing the XL sheets making the components list that are to be designed.
* Designing the connectors and supports as mechanical components those are to be electrified further.
* Making equipments for the engine systems where the need of Electrical assembly takes place.
* Using Vehicle Coordinate System, placing of connectors at their appropriate positions with respect to origin has been done.
* CABLE TRAYS are used to route the bundles..
* Connector to connector routing is a crucial part as maintaining the flow of power is required in proper directions is necessary.
* Maintaining the E  Node in the design tree where point to point connections have been saved.
* Proper analyzing of connections and flow of bundles has been done.
* DROPOUTS are been calculated to notice the length of the branches which are out of the cable trays.
* Used to increase the bundle lengths by creating LOOP Structures..
* Configuring 3D harnesses based on manufacturers need which are sent back in the form of ROUTING PATH DOCUMENTS.
* Extracting the 3D model to EHF and used to flatten the complete harness.
* According to the Tangency directions of branches at Branch Points and Flow of power from ends, orientation has been given using flattening manipulators.
* Synchronization has to be made for proper porting of modifications and parts that are done in 3D model.

**Educational Qualifications:**

* Bachelor of technology in mechanical engineering with 74% SREC Warangal, Telangana
* Intermediate with 96.4% aggregate through Sneha junior college, Telangana
* SSC with 86.1% aggregate through St. Thomas high school , Telangana.

**Technical Qualifications:**

* CatiaV5& Enovia 3D Experiene : Modeling, Assembly, Drafting, Sheet

metal, Electrical Wiring Harness

* Creo 4.0: Modeling, Assembly, Drafting, Sheet metal,

Electrical Wiring Harness

* CHS : XC,IP,LOGIC(SCHEMATICS)
* Auto CAD

**Hobbies**:

* Cooking.
* Listening music.

# **Strengths**:

* Quick learner.
* Problem solving skills.
* Zeal to learn new things and work innovatively.

**Personal Details:**

* Languages Known: English, Telugu andHindi.
* DOB: 13-04-1994
* Address: S/o B.Raju,H.No:1-9/2,Garmillapallly,Zaffergadh, Warangal (dist).

**Declaration:**

I declare that the above mentioned information is true to the best of my knowledge.

Date:

Place: Warangal.

BALABOINA HARISH