

# Manohar Chinnadurai

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## Career Objective

In pursuit of challenging and enriching assignments in **Mechanical and Electrical Routing and Wiring Harnesses**. Possessing a good team spirit, organized and able to work for deadlines and targets.

## Education

- **Bachelor of Engineering (Mechanical Engineering)**, Anna University, Tamilnadu, India ( 2013 ) - 70%

## Professional Summary

- A result oriented professional with 8.5 years' experience in **Cable Routing, Designing and Manufacturing, 3D-Modelling,CAD/CAM and 2D drawings**.
- Presently associated with Tata Consultancy Services Limited, India as **Electrical Design Engineer**.

## Relevant Skills

### Modelling, Programming, Cable Routing and Drafting.

- Proficient in solid modeling experience to generate 3D models & 2-D drawings
- Interact with global level cross functional teams like Mechanical, Electrical, Manufacturing, etc. to get the inputs on routing, interpretation of mechanical drawings/specifications and electrical wiring drawings.
- Perform self-check and peer-check and ensure cables are routed / terminated according to the design
- Experience with documentation standards and Engineering Change Management processes. Knowledge of PLM system in ENOVIA.
- Generation of Turning and Milling(3/4/5-axis) tool paths in Unigraphics NX
- Cable and harness routing, polyline routing and any other flexible component routing using NX cable routing module.
- Knowledge on electrical systems and components, Control system, relays, power supplies, cable harness.

## Career Related Experience

**TATA Consultancy Services Limited, Chennai, India – Design Engineer-06- May-2021 – Till Now**

and **21- May-2018 – 05- May-2021** (Under the Payroll of Teamware Solutions)

**Nature of work:**

- Work closely with all turbine systems design team for feasibility, routing and design of various cables
- Analyze and segregate various cables considering EMC classes Identify exact source and destination points in mechanical structure 3D Perform and implement cable design and cable routing optimally in NX/3D
- Responsible for making a feasibility study of cable paths in wind turbine.
- Design and Drawing correction in Existing Parts and Conducting the Design Review Meeting
- Having knowledge on cable types and standard used across globe.
- Responsible for ensure quality of Deliverables on time in alignment with the customer process.
- Knowledge on NFPA standard for cable routing and NEC/IEC standards for cable separation. And CEC (12) standard for wiring method and cable supports.
- Provide 3D cable routing data to prepare work instructions Knowledge on MS-Excel Macros
- Prioritizes Review of ECOs (Engineering Change Order) and expedites release of ECO, in the implementation cycle.
- Review ECO's for content completeness, Structure of Bill of Material, customer impact (internal and external), organizational impact, and functional product impact
- Coordinates with other impacted EC analysts; verifies that appropriate CIB (Change Implementation Board) members are included on the ECO based on Product Family, Product Line, Change Category, planner/buyer and product option tree, as applicable.

**Montbleu Technologies Pvt Ltd, Coimbatore, India – Design Engineer- July'16 – May'18****Nature of Work**

- Developing concepts and 3D finish for BIW Welding and Assembly fixtures like Geo tool, Re-spot tool, Marriage tool, and Framer tool and Grippers like Material handling gripper and Process gripper.
- 3D & 2D Clamp Plan ,Ergonomics Study ,Gun study
- To study the zone diagram (Assembly Layout).
- To ensure the quality check of 2D drawings.

**Project 1: Assembly Fixtures (MFA2)**

- Design, Detailing and layout creation of Assembly Fixtures for MFA2 project.

**Customer:** DAIMLER BENZ.

**Software:** NX11.0

**Responsibilities:**

- Concept design & Design Modification
- Detailing.

## **Project 2: Assembly Fixtures (BR223)**

- Design, Detailing and layout creation of Assembly Fixtures for BR223 project.

**Customer:** DAIMLER BENZ.

**Software:** NX11.0

### **Responsibilities:**

- Concept design & Design Modification
- Detailing

**Aquasub Engineering, Coimbatore, India – CAD / CAM Engineer- May'14 – April'16**

### **Responsibilities**

- Preparation of pattern, casting, machining development plan with commitment details and current status. Implement the development plan to get the optimal result.
- Preparation of method sketch using AutoCAD software for Gating & Riser design of casting.
- Preparation of casting, pattern and mold cavity splitting using Unigraphics NX Software
- Develop and generate 3D Computer controlled programs for various machines and optimization of machining time by setting processes parameters like speed, feed & depth of cut for various jobs and material conditions with Delcam Powermill 2015 R2 and Unigraphics NX10.0 software.

### **Personal Details:**

Father name	: D. Chinnadurai
DOB	: 19-OCT-1992
Gender	: Male
Nationality	: Indian
Languages known	: English & Tamil (speak & write)
Passport Number	: N6146857 (Issue Date: 21/01/2016).

### **Declaration:**

From bottom of my heart, I hereby that all the information furnished above is true to best of my knowledge.

**Date: -**

**Place: - Chennai**

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