

NATARAJAN A

OBJECTIVE

An Energetic Design & Estimation Engineer with over 5 +years of professional experience in mechanical design & Estimation. Demonstrated expertise in fabrication-oriented design, Steel Structure and sheet metal design. Known for a structured approach to work, effective task prioritization, and consistent delivery aligned with project requirements and deadlines.

EXPERIENCE

DESIGN & ESTIMATION ENGINEER


AMEERI INDUSTRIES W.L.L (AMGARD), BAHRAIN / SEPTEMBER 2024 – PRESENT


- Executed **3D modeling** and detailed **fabrication drawing** using SolidWorks & AutoCAD to translate design intent into shop drawings.
- Prepared **cutting drawings** and generated **nested layouts** using AutoCAD to maximize material yield.
- Optimized component designs through **DFM/DFA** analysis to improve production & assembly accuracy.
- Selected materials in compliance with **ASTM standards** to ensure structural integrity.
- Conducted preliminary **FEA studies** to assess strength, deformation, and reliability of mechanical components.
- Analyzed **IFC drawings** and prepared **RFIs** to resolve design ambiguities and support construction accuracy.
- Produced **As-built drawings** to capture field changes and support project verification and handover.
- Prepared accurate Bills of Quantities (**BOQ**) to support material procurement & resource allocation.
- Responded to **New project Enquiries** by assessing technical requirements, for sales to participate in Tender activities.
- Prepared **Cost estimates** for new projects by analyzing design specifications to support budgeting and quoting activities.
- Formulated **cost breakdowns** and contributed to quoting processes for new and existing products.
- Conducted **Design review** meetings to address technical challenges, material requirements & ensuring delivery time for the project.
- Prepared detailed **Packing lists** to deliver materials to clients & to prevent material skip age.

MECHANICAL DRAFTSMAN


FABTECH CONTRACTING W.L.L, BAHRAIN / JUNE 2022 – SEPTEMBER 2024

 natraja956@gmail.com

 97338141544

 +97338141544

 Khamis, Bahrain

 www.linkedin.com/in/natarajan-ayyamperumal

SKILLS

Sound judgement and Decisionmaking.

Problem solving, Analytical thinking.

Ability to manage multiple priorities.

Analysis, Critical thinking.

Take necessary corrective actions to ensure quality.

EDUCATION

NANDHA ENGINEERING COLLEGE, ERODE (2015-2019)

Electronics & Instrumentation
CGPA: 7.67

GOVERNMENT HIGHER SECONDARY SCHOOL, VALLIOOR (2014-2015)

12TH (Computer Science)
PERCENTAGE: 73

GOVERNMENT HIGHER SECONDARY SCHOOL, VALLIOOR (2012-2013)

10TH
PERCENTAGE: 89

- Create fabrication drawings for **Mechanical projects**, as well as site plans as per the requirements.
- Making detailed **2D and 3D models** of mechanical systems and serve as blueprints for assembly and manufacturing.
- Creating detailed **Fabrication drawings** for metal fabrication and machining areas that break down of complex models for easy understanding.
- Proficient in designing **Sheet metal** components using SolidWorks, including creating flat patterns and complex bends.
- Supported **NC programming** for CNC cutting operations to ensure accurate machining.
- Ability to do **reverse engineering** such as converting work pieces into 3D model for manufacturing.

DESIGN ENGINEER (TRAINEE)

TITAN COMPANY LIMITED, TAMILNADU, INDIA / AUGUST 2019 – APRIL 2022

- Identifying **engineering issues** and working with senior engineers to identify a suitable solution.
- Preparing project reports for Senior Engineers and doing **documentation** work.
- **Examine** and **edit drawings** according to engineer input.
- Developed CNC programs using the necessary **CAD** and **CAM** software for important task.

SOFTWARE SKILLS

- AutoCAD 2D/3D
- SolidWorks
- Fast cam
- Microsoft Office

CERTIFICATE'S

AutoCAD Certification

Itronix solutions, 30 May 2024

- Proficient in creating detailed mechanical designs and 3D models using AutoCAD
- Skilled in drafting, annotation, and dimensioning techniques
- Experienced in applying industry standards and practices to design projects

Learn SolidWorks from basic to advance

Edunoix, 25 May 2024

- Expertise in 3D modelling
- Strong understanding of mechanical components and assemblies
- Proficient in using features like parametric design, surfacing, and sheet metal

LANGUAGES

Tamil, English, Hindi