

TALLA KEDHAR SURYA

Mechanical Design Engineer

📍 Hyderabad, Telangana, India

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PROFESSIONAL SUMMARY

Mechanical Design Engineer with **3+ years of experience** in product design, development, and manufacturing support for **Rotating Electrical Machines, Industrial Equipment and Defence Projects**. Experienced in designing **AC Motors, DC Motors, Alternators, Permanent Magnet Motors, Rotary Converters, and Sheet Metal Components** using **PTC Creo, SolidWorks, and AutoCAD**. Strong knowledge of **GD&T, BOM Management, Engineering Change Management (ECN/ECR)**. Proven ability to collaborate with cross-functional teams to deliver high-quality engineering solutions while reducing manufacturing cost and improving product performance.

CAD & Design Tools: PTC Creo Parametric (12.0 & 9.0), SolidWorks, AutoCAD

Core Competencies: Mechanical Product Design, Product Development, Cross Functional Coordination, Rotating Electrical Machines, AC Motors & DC Motors, Alternators, PMSM Motors, Sheet Metal Design, Weight Calculations.

Software: MS Excel, MS Word, Microsoft Dynamics NAV (ERP)

PROFESSIONAL EXPERIENCE

Junior Executive – Mechanical Design

Elmot Alternators Pvt. Ltd., Hyderabad

October 2023 – June 2026

Key Responsibilities

- Designed and developed rotating electrical machines for Indian Navy projects.
- Designed AC Motors, DC Motors, Alternators, Rotary Converters, Control & Excitation panels, Busbars, Tally & Marker plates and stickers.
- Created complex 3D parts and assemblies using PTC Creo, SolidWorks, AutoCAD for Body, Shaft, F&R End shields, Terminal Box, bearing covers, Fan, Stator & Rotor stamping, coil formers drawings are sent to our Design Head.
- Prepared Approval drawings, assembly drawings, fabrication drawings, and General Arrangement (GA) drawings, Test Fixture Design.
- Generated accurate Bills of Materials (BOM) for Designed product.

- Supported prototype manufacturing, testing.
 - Worked closely with production, quality, procurement, and assembly teams.
 - Improved product manufacturability while reducing production cost of 10% in a reputed project.
 - I have worked with the Clients are BEL, BHEL, HAL, Everllence, Cummins, KOEL, GRSE TOCOL.
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Trainee Engineer – Design

Shanti Boilers Pvt. Ltd., Hyderabad

July 2023 – October 2023

- Designed Air Preheaters (APH), Fans, Ducting Systems, and Structural Components.
 - Developed 3D models using SolidWorks, autocad.
 - Generated fabrication drawings for manufacturing.
 - Optimized material utilization and reduced sheet metal waste.
 - Coordinated with fabrication and production teams.
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Design Intern

Bull Rock Drills Pvt. Ltd., Hyderabad

October 2018 – May 2019

- Assisted in mechanical component design using Creo and AutoCAD.
 - Supported production and quality inspection activities.
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EDUCATION

Bachelor of Technology (Mechanical Engineering)

JNTUH (Pallavi Engineering College), Hyderabad | 2022

Diploma in Mechanical Engineering

Aurora Polytechnic Institute, Hyderabad | 2019

SSC

Sanghi Vidya Niketan, Hyderabad | 2016

ADDITIONAL INFORMATION

Languages: English, Telugu, Hindi

Location: Hyderabad, Telangana, India