

# MANISH SHARMA

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## PROFESSIONAL EXPERIENCE

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Uttam (Bharat) Electricals Private Limited, Jaipur, Rajasthan

Oct 2024 – Present

### Assistant Engineer (Electrical Design)

- Validated mechanical & electrical design deliverables against customer specifications and application requirements.
- Tender Documentation including GTP and Quotation Price.
- Create thorough design documentation, including Quotation, material specifications, transformer fittings, and Estimation & Costing.
- Verify standards compliance in electrical schematics by applying IEEE-C.57, and IEC-60076 guidelines and standards like IS 1180 & IS 2026 in Transformer design.
- Assisted in designing LV and HV windings for Distribution & Power transformers.
- Basic awareness of Transformer Core concepts and insulation coordination principles.
- Strong working knowledge of Microsoft Excel, Microsoft Word, Microsoft Power Point and Microsoft Outlook.

Simpliforge Creations Private Limited, Hyderabad, Telangana

Aug 2023 – Sept 2024

### Junior Design Engineer

- Developed detailed electrical layouts for 10 small-scale architectural projects in **AutoCAD Electrical**, including specialized **Electrical lighting systems** and **Single Line Diagrams (SLDs)**, adhering strictly to **BIS** standards.
- Spearheaded the development of detailed **design process documentation**, resulting in a few hours reduction in design phase revision time per project.
- Successfully managed and executed multiple large-scale product design projects, overseeing key stages including **design, risk analysis, production, and quality assurance**.
- Proficiency in modeling structural elements (**beams, columns, foundations**) in parametric design software tools like **Solidworks, Fusion360**.
- Estimated, verified, and maintained precise **Bill of Material** for the projects in **Microsoft Excel**.

## INTERNSHIPS

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R-CAT, Jaipur city, Rajasthan

Feb 2023 – June 2023

### Student Intern (Robotics Process Automation)

- Mastered scripting and coding in languages like **C** and **Python** to enhance bot's functionality.
- Designing Robot Parts and Components Using **Fusion 360, TinkerCAD**.
- Worked on the development of bots using microcontrollers like **Arduino (UNO, NANO), PIC**.

## EDUCATION

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Arya College of Engineering & Information Technology, Jaipur City, Rajasthan

2019 - 2023

### Bachelor of Technology, Electrical Engineering

- Overall CGPA: **7.6** (First Class With Distinction)
- Focused on courses such as **Circuit Theory, Power Systems & Electrical Instruments**.

## KEY SKILLS

Computer-Aided Design  
Computational Design  
Electrical Lighting Design  
Architectural Modeling  
Bill of Materials / Estimation

## SOFTWARE TOOLS

Autodesk Fusion 360, PTC-Creo (Onshape)  
Rhinoceros 3D, Meshmixer  
AutoCAD & AutoCAD Electrical  
SolidWorks  
Microsoft Excel

## PROJECTS

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- Modular Cabin: 3D Concrete Printed
  - Structure is having 3 different types of patterns generated using Grasshopper (Rhino3D)
  - Designed electrical systems for the **3D Concrete Printed Modular Cabin** in Siddipet, Telangana.
  - Included **wiring schematics, lighting circuits, and load analysis** in compliance with **BIS**.
- Solar Dryer (Design & Prototype Model)
  - Developed a CAD design for the **Solar Dryer** at ACEIT, Jaipur.
  - Analyzed the power generation at temperature conditions in a regular solar day
- MES - Morar Cantonment
  - Project belongs to Military Engineering Services (MES), constructed using 3 different software's including Solidworks, Rhino3D.
  - Designed the **Electrical Lighting System** for the Military Engineering Services (MES) project using **AutoCAD Electrical** and **SolidWorks Electrical** to create detailed circuit layouts.
- World's First 3D Concrete Printed Temple
  - Was part of Project featuring impressive patterns and Structures was inaugurated by the Minister of Telangana.
  - Engineered the **lighting design** and **Load analysis** for the 3D Concrete Printed Temple in Siddipet.
- Mortuary- M.E.S
  - Mortuary building is constructed for the Military Engineering Services (MES) in Jhansi, U.P
  - Planned and implemented the **electrical wiring layout** for the Mortuary building.
- Floating VAWT (Design & Prototype Model)
  - A remote Operated Vertical Axis Wind turbine having Floating Mechanism.
  - Designed the electrical control system for the **Vertical Axis Wind Turbine (VAWT)** prototype with a floating mechanism.

## COURSES & CERTIFICATION

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- SolidWorks Certified Master Course (CSWA) 2018/19/20
- Advanced Diploma Course in Electrical Design Engineering
- Autodesk AutoCAD Electrical 2024 for Electrical Designers
- Parametric Designing in Rhino3D & Grasshopper