

# RUDRA KRISHNA

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## PROFESSIONAL SUMMARY

MSc Electrical and Electronics Engineering graduate with a strong focus on Power Systems, Power Electronics & Digital Signal Processing. Skilled in control engineering, adept with P, PI, and PID controller tuning, analyzing electrical networks, designing transformer and panel sizing, load flow calculations, and system modelling. Experienced in using MATLAB/Simulink, ETAP, AutoCAD Electrical, and SPICE for simulation and design. Motivated to apply technical expertise in delivering safe, efficient, and innovative electrical solutions within power and energy sectors.

## WORK EXPERIENCE

ENGINEERING INTERN

**Delta ElMech, Hyderabad, India**

August 2022-February 2023

- Interpreted and analyzed Single Line Diagrams (SLDs) of substations for power flow studies.
- Assisted in planning and designing HT/LT (11 kV/440 V) distribution networks, ensuring compliance with safety and regulatory standards.
- Carried out inspection and testing of high-voltage equipment (transformers, switchgear), contributing to fault detection and safe operation.
- Supported senior engineers in developing load extension schemes and improving the reliability of local distribution systems.

## EDUCATIONS

**University of Leicester- LE1 7RH, England, UK**

2023-2025

MSc Advanced Electrical and Electronics Engineering

**Jawaharlal Nehru Technological University, Hyderabad, Telangana , India**

2018-2022

BTech Electrical and Electronics Engineering

## PUBLICATIONS

- MATLAB Based Analysis of Synthetic Chirp Signals Using FFT and CWT

DOI: <https://doi.org/10.61137/ijrsret.vol.11.issue2.209%20%C2%A0%C2%A0>

- Time-Frequency Analysis of the Original and Resampled Square Wave Using Continuous Wavelet Transform and comparison with FFT using MATLAB

DOI: <https://doi.org/10.17148/IJARCCCE.2025.14305>

- Hybrid Signal Denoising in Seismic Applications Using Sinc Filtering and Machine Learning Regression

DOI: <https://doi.org/10.5281/zenodo.15110930>

## SKILLS

- MATLAB
- SIMULINK
- AutoCad Electrical
- ETap
- Revit
- Python
- AI/ML
- Embedded C
- Load Flow Analysis
- Filter Design
- Control Systems Engineering
- Cable Sizing and Calculation
- Transformer Sizing and Calculations
- Microsoft Office

## CERTIFICATIONS

- Matlab Onramp
- Control Design Onramp with Simulink
- Power Electronics Simulation Onramp
- Filter Design and analysis with MATLAB
- Core Signal Processing with MATLAB