

NENAVATH AKSHAYA

Electrical Engineering

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EDUCATION

Rajiv Gandhi Institute Of Petroleum Technology

Bachelor of Technology - Electrical Engineering

2022 – 2026

Ascent Junior College Hyderabad

12th Grade/Intermediate

2019 – 2021

Kendriya Vidyalaya No.1 Uppal

10th Grade/Highschool

2018

INTERNSHIP

Defence Research and Development Organisation (DRDO)

May 2024 – July 2024

Research Intern

- Conducted research on digital signal processing filters.
- Assisted in the development and analysis of DSP algorithms.
- Contributed to the optimization of filter designs for specific applications.

PROJECTS

Modelling and Estimation of Battery Parameters for EV Applications

May 2024 – Present

Guide: Prof. Saurabh Pandey

- Developed advanced battery models to improve electric vehicle range prediction by 15%.
- Implemented parameter estimation techniques, reducing modeling errors by 20%.
- Conducted simulations to validate model accuracy across various driving conditions.

Digital Signal Processing Filters for Defence Applications

May 2024 – July 2024

Defence Research and Development Organisation (DRDO)

- Designed and optimized DSP filters, improving signal-to-noise ratio by 30% in target applications.
- Implemented real-time filter algorithms, reducing processing latency by 25%.
- Conducted performance analysis on 5 different filter architectures for various defence scenarios.

COURSEWORK/SKILLS

Coursework: Network Analysis and Synthesis, Signals and Systems, Power Electronics, Electrical Machines, Control Systems, Analog Circuits and Systems, Digital Circuits and Systems, Sensors Actuators and Control for Electric Vehicles

Skills: Matlab, AutoCAD, Simulink, Power Systems Analysis, Electrical Circuit Design, PLC Programming, Transformers and Machines

ACHIEVEMENTS

- Secured 1st place at State level in Cyber Olympiad level-I.
- Achieved 2nd place at State level in Olympiad Level II.
- Participated in Nationals at the National Children Science Congress.
- Bagged 1st prize in Nationals at the Jawaharlal Nehru Science Exhibition.
- National level rope skipping athlete
- State-level Kabbadi and Kho-Kho player.

VOLUNTEER EXPERIENCE

IEEE

Collaboration and Media Head

E - Cell RGIPT

Startup Executive

Cisco ThingQbator RGIPT

Outreach Executive