

MOHIT CHOUDHARY

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➤ EDUCATION

KIIT UNIVERSITY, BHUBANESWAR

JULY 2021 - MAY 2024

B.TECH in Electrical and Electronics Engineering

CGPA: 9.59 / 10

AL- KABIR POLYTECHNIC, JAMSHEDPUR

JULY 2017 - AUGUST 2020

DIPLOMA in Electrical Engineering

CGPA: 8.6 / 10

➤ SKILLS & CERTIFICATIONS

Technologies & Tools :- MATLAB & Simulink, PLC Programming, MS-Office, Electrical Maintenance, Electrical Drives, Arduino, MySQL, C/C++

Soft Skills :- Communication, Problem-Solving, Time Management, Adaptability, Team Work, Attention to Detail

Certifications :- MATLAB Onramp, Simulink Onramp, PLC Programming, Simulink Fundamentals, Stateflow Onramp

➤ EXPERIENCE

MBD INTERNSHIP TRAINEE | KPIT TECHNOLOGIES LIMITED, PUNE

DECEMBER 2023 - FEBRUARY 2024

- Applied MATLAB and Simulink extensively in model-based design projects, enhancing proficiency in system modeling, simulation, and analysis. Developed and simulated dynamic models using MATLAB and Simulink, enhancing efficiency in model-based design projects.
- Leveraged Stateflow for developing efficient control logic, contributing to the implementation of robust and scalable algorithms in real-world applications.

INTERNSHIP TRAINEE | TATA STEEL LIMITED, JAMSHEDPUR

MAY 2023 - JULY 2023

- Acquired comprehensive knowledge of Siemens PLC and its various types, enhancing my understanding of automation systems in industrial settings.
- Operated LCI drives to gain hands-on experience in drive control mechanisms, contributing to the optimization of machinery performance. Studied and analyzed transformer operations and maintenance protocols, improving my technical skills in electrical engineering and power systems.

➤ PROJECTS

MPPT DESIGN USING P&O ALGORITHM IN SIMULINK & MATLAB

MARCH 2024 - APRIL 2024

- Developed an MPPT system using the Perturb and Observe algorithm to optimize the efficiency of photovoltaic solar panels.
- Designed and simulated the MPPT system in Simulink and MATLAB. Conducted extensive testing of the simulation model.
- Implemented the P&O algorithm for dynamic adjustment of the PV system's operating point.

DUAL AXIS SOLAR TRACKER & SIMULATION ANALYSIS

FEBRUARY 2023 - NOVEMBER 2023

- Designed and implemented a dual-axis solar tracker using Arduino, servo motors, and LDR sensors, resulting in improved solar panel efficiency by optimizing the alignment with the sun throughout the day.
- Simulated the performance of the solar tracker system using PVSyst software, analyzing energy yield and system efficiency to validate the design and enhance its effectiveness.

REFRO GEYSER WITH DUAL FUNCTIONALITY

JULY 2019 - DECEMBER 2019

- Engineered a multifunctional Refro Geyser capable of both heating and cooling water, utilizing a standard geyser body, thermostat, two-way switch, and compressor to achieve dual functionality. Integrated a thermostat and two-way switch to seamlessly control the temperature, ensuring precise regulation for both heating and cooling modes.