ATHARVA RAM DESHMUKH

B.E. - Electrical Engineering

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Pune, Maharashtra, India - 411052

BRIEF SUMMARY

Motivated Electrical Engineering graduate eager to build a career in service operations, customer support and field coordination, with strong learning ability and commitment to delivering quality service.

KEY EXPERTISE

MS Office | MATLAB | Simulink | Niagara | Panel Testing Tools

EDUCATION

Marathwada Mitra Mandal's College of Engineering 2022 - 2026

B.E. - Electrical Engineering | CGPA: **7.74** / **10**

Nextleap 2025 - 2025

Product Manager Fellowship | Percentage : **66** / **100**

Deogiri College Aurangabad, Aurangabad 2022

12th | MSBSHSE | Percentage: **81.17** / **100**

BSGM School Aurangabad, Aurangabad 2020

10th | MSBSHSE | Percentage: **94.40** / **100**

INTERNSHIPS

UL Systems and Controls | Electrical / Switchgear 23 Dec, 2024 - 23 Jan, 2025

Electrical Engineer Trainee

During my internship, I contributed to the Factory Acceptance Testing (FAT) of data centre panels using Niagara Software. I studied and observed the wiring process and schematic diagrams during panel assembly. I also learned about the Bill of Materials (BOM) process and gained experience in preparing documentation and understanding inventory management in the panel testing workflow.

Finzie | Market Research 10 Dec, 2023 - 10 Mar, 2024

Business Associate

Conducted market research for a music-based startup, analyzing industry trends
and competitor strategies. Collaborated with a team to develop a pitch deck for a space sector startup, identifying and securing more suitable investors for the venture.

PROJECTS

Circuit For Transmitting And Receiving Data Signals Through Power Lines 02 Aug, 2025 - 14 Nov, 2025

Mentor: Dr. Vilas Bugade | **Team Size:** 4

Key Skills: MATLAB | Simulink | LTSpice | Research

Power line communication(PLC) is a new, emerging technique that is used to send data signals through existing power lines along with a 230V AC supply. PLC implements the concept of modulating and demodulating data signals to facilitate the transmission of data over power lines. It negates the need for communication cables, making it more cost-effective and scalable in the future. This technology is the future of home automation and internet transfer, as it does not need any new infrastructure to send control signals or data packets. This study primarily focuses on the main concept of power line communication, specifically how the transmission and receiver circuits, integral parts of power line communication modules, can be made more economical and smaller in size. This paper dives deeper into the simulation of the PLC module and analyzes whether the replaced blocks in a conventional power line communication module work as well. The main objective of the research paper is to make the PLC Module more compact and ensure smooth data transfer through an improved version and assessing the performance outcome.

DESIGN AND DEVELOPMENT OF THREE - PHASE TRANSFORMER 04 Apr, 2024 - 04 Apr, 2024

Mentor: Dr. Anagha Soman | **Team Size:** 4

Project Link: https://ijireeice.com/wp-content/uploads/2024/05/IJIREEICE.2024.12441.pdf

Designed and tested a 3-phase transformer prototype at Gokhale Transformers.
Conducted core design calculations, connection analysis, and efficiency testing.
Published a paper in IJIREEICE journal (2024).

Token Counter System

04 Apr, 2023 - 04 Jun, 2023

Mentor: Samarpita Bakshi | **Team Size:** 6

Developed a queue management system using microcontroller and display unit.
Learned digital electronics integration and signal control logic.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Design and Development of Three Phase Transformer

04 Apr, 2024

International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE) |

Mentor: Dr. Anagha Soman | **No. of Authors:** 5

The research paper “Design and Development of Three-Phase Transformer” explains how three-phase transformers are built and used in power distribution. It describes the main parts, different connection types, and why material choice is important. The study also includes testing methods and diagrams to show how transformers work in real applications.

ASSESSMENTS / CERTIFICATIONS

MOOCS

Aggregate: 65 / 100

Key Skills: Soft Skills

POSITIONS OF RESPONSIBILITY

Vice President, EESA

Successfully organized Dexterity 2K23-24, a national-level event by EESA.
Coordinated two competitions, attracting over 100 student participants.

Technical Head, IEEE

Served on the Organizing Committee for IEEE MMCOE's flagship event, Avinya 2k23

PERSONAL DETAILS

Gender: Male

Marital Status: Single

Current Address: Samarth PG Boys Hostel, Opposite Millennium National School, State Bank Nagar, Hingane Home Colony, Karvenagar, Pune, Maharashtra 411052, Pune, Maharashtra, India - 411052

Date of Birth: 16 May, 2004

Known Languages: English, Marathi, Hindi

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