

BHUKYA SHARATH NAIK

Warangal, Telangana, India

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EDUCATION

IIT ISM DHANBAD

Master of Technology in RF and Microwave Engineering

Jul. 2024 – May 2026

CGPA: 6.68

PDPM IIITDM JABALPUR

Bachelor of Technology in Electronics and Communication Engineering

Nov. 2020 – May 2024

CGPA: 7.0

TECHNICAL SKILLS

Languages: Python, HTML, CSS, SQL

Simulation and Design Tools: ANSYS HFSS, Advanced Design System (Keysight ADS)

Developer Tools: Visual Studio Code, MySQL, MATLAB

Cloud/Databases: Relational Database (MySQL)

Soft Skills: Leadership, Teamwork, Public Speaking, Strategic Planning

WORK EXPERIENCE

Teaching Assistant | IIT ISM DHANBAD

May 2024 – Present

RF Design and Antenna Simulation

Onsite

- Conducted RF circuit simulation training for 10+ M.Tech Students on Keysight ADS with emphasis on impedance matching, S-parameter analysis, and amplifier design.
- Modeling of guided antennas and performance simulation with ANSYS HFSS, focusing on 3D EM simulation and hands-on design experience.

Undergraduate Research Intern | PDPM IIITDM JABALPUR

Jan 2024 – May 2024

Reliability Analysis in Digital Circuits (Intern)

Onsite

- Enhanced CMOS technology reliability by implementing derating analysis and failure mode identification; optimized circuit-level simulations, resulting in a 20% reduction in temperature-induced performance degradation, and extending the product lifecycle.
- Links:** [Reliability-Analysis-in-Digital-Circuits](#)

Subject Matter Expert | Chegg

Sep 2023 – Jan 2024

Part-time, Freelance

Remote

- Formulated 100+ detailed answer keys for advanced mathematics textbooks, ensuring precision and clarity for college math students, and meeting all deadlines, which boosted student performance by three letter grades.

PROJECTS

RF Matching Network Design & Impedance Optimization | Keysight ADS

Jan 2025 – May 2025

- Developed and optimized a high-efficiency Class AB RF Power Amplifier at 2 GHz. Focused on achieving excellent linearity and unconditional stability using advanced RF simulation, design, and performance optimization techniques.
- Links:** [Power Amplifier Impedance Optimization](#)

Smart Intrusion Prevention System | C++, Arduino

Aug 2023

- Designed and configured a multi-factor security system integrating fingerprint recognition, passcode entry, and mobile app-based access with encryption. Enabled secure remote access and enhanced user convenience while ensuring reliability and minimizing vulnerabilities through thorough testing and adherence to security best practices.
- Links:** [Smart-Intrusion-Prevention-System](#)

Geo Fencing for Low Flying Objects | CST, C++

Sep 2022

- An anti-drone system to combat malicious activities (military operations) was built and tested. A portable jammer (GPRS) was implemented for drone mitigation. Advanced machine learning will be integrated into the system, increasing the ability to detect and respond to sophisticated drone threats.
- Links:** [Geo-Fencing-for-Low-Flying-Objects](#)

- Bridged academia-industry connections as Student Internship Representative, facilitating top-tier internship placements and career development opportunities for Electronics Engineering peers at IIT (ISM) Dhanbad.
- Promoted student well-being by organizing counseling sessions, wellness workshops, and peer support initiatives; fostered a supportive, stigma-free campus through awareness campaigns and open discussions.
- Core Member of the Business and Management Club where I managed and coordinated club events, overseeing the successful execution of more than 5 events.