BHUKYA SHARATH NAIK

Warangal, Telangana, India

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Education

IIT ISM DHANBAD — Jul. 2024 – May 2026
Master of Technology in RF and Microwave Engineering — *CGPA: 6.68*

PDPM IIITDM JABALPUR — Nov. 2020 – May 2024
Bachelor of Technology in Electronics and Communication Engineering — *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 2025 – 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.

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.

Academic 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:** RF Matching Networks

Reliability Analysis in Digital Circuits | *C++, Arduino* — Jan 2024 – May 2024
- 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

Smart Intrusion Prevention System | *C++, Arduino* — Aug 2023
- Engineered a Smart Intrusion Prevention System incorporating fingerprint, passcode, and mobile app-based multi-factor authentication, enhancing system security and reducing unauthorized access incidents by 35%.
- **Links:** Smart-Intrusion-Prevention-System

Geo Fencing for Low Flying Objects | *CST, C++* — Sep 2022
- Developed real-time alert system for low-flying aerial object geofencing, achieving a 99% reliability rate in detecting boundary violations through rigorous software testing and simulated intrusion scenarios.
- **Links:** Geo-Fencing-for-Low-Flying-Objects

Leadership / Extracurricular

- Connected students with industry internships and career opportunities as the Student Internship Representative, helping Electronics Engineering peers at IIT (ISM) Dhanbad gain real-world experience.
- Organized counseling sessions and wellness workshops to support student well-being, creating a positive and stigma-free campus through open conversations and awareness efforts at PDPM IIITDM JABALPUR.
- Core Member of the Business and Management Club, where I managed and coordinated club events, overseeing the successful execution of more than 5 events.