

# BHUKYA SHARATH NAIK

Warangal, Telangana, India

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## Education

### PDPM IIITD Jabalpur

Nov 2020 - May 2024

Bachelor of Technology in Electronics and Communication Engineering

CGPA: 7.0

## Relevant Coursework

- Communications
- Control Systems
- Electromagnetics
- Digital Circuits
- Analog Circuits
- Electronic Devices
- VLSI

## Technical Skills

**Languages:** Cadence, Verilog, Python, C++, HTML, CSS, MYSQL

**Frameworks:** Reddis, NodeJS, MongoDB

**Tools:** CST, VHDL, Simulink, Matlab, Autocad, MS Excel, VSCode, Git, Github

**Soft Skills:** Project Management, Leadership, Problem-Solving, Teamwork, Self-Learning, Good communication, Public Speaking

## Projects

### Reliability Analysis in Digital Circuits | Cadence, Symica

Mar 2024

- Ensured circuit reliability and optimized performance through component selection, derating analysis, failure mode identification, efficiency improvements, and circuit simulation.
- **Links:** <https://github.com/sharath028/Reliability-Analysis-in-Digital-Circuits>

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

Sep 2022

- An anti-drone system to combat malicious activities (military operations) was evolved and operated. A portable jammer (GPRS) was developed for drone mitigation. Advanced machine learning will be integrated into the system, increasing the ability to detect and respond to sophisticated drone threats.
- Apply stringent security measures to ensure drone fence systems can withstand ongoing threats and attacks.
- Advanced machine learning will be integrated into the system, increasing the ability to detect and respond to sophisticated drone threats.
- **Links:** <https://github.com/sharath028/Geo-Fencing-for-Low-Flying-Objects>

### Smart Intrusion Prevention System | C++, Arduino

Aug 2023

- A robust security system using fingerprint, passcode and mobile app authentication was Created and executed to prevent unauthorized access to the designated area.
- Enhanced user convenience by integrating a mobile app that allows remote door opening from any location with internet access.
- Potential security vulnerabilities are reduced by implementing multifactor authentication, and encryption schemes.
- System reliability was achieved through comprehensive testing and application of best practices in safety measures.
- **Links:** <https://github.com/sharath028/Smart-Intrusion-Prevention-System>

### Webpage for Food Caterers | HTML, CSS, JavaScript

Sep 2023

- An intuitive and user-friendly website for food suppliers was Designed and built. Features on the website include:
- Strong details that reflect the caterer's service and expertise.
- Intuitive navigation that allows users to find relevant information quickly.
- Combined communication letters and a clear call to action for immediate communication.
- Mobile-friendly design that ensures the best user experience on all devices.
- **Links:** <https://github.com/sharath028/Balajicatering.github.io> <https://balajicaterers.netlify.app/>

### Design and Simulation of various Antennas Using CST Software | CST

Apr 2022

- Designed and simulated a variety of antennas using CST Studio Suite, including microstrip, patch and horn antennas
- Analyzed the performance of the antennas in terms of radiation pattern, gain, and bandwidth.
- Optimized the antenna designs to meet specific requirements, such as high gain, wide bandwidth, and low directivity.
- Generated expertise in using CST software to design and simulate antennas for a variety of applications.

## Leadership / Extracurricular

- Served as the Assistant Counseling Committee Coordinator at IITDMJ and directly mentored 40 students and indirectly mentored 250+ students..
- Dedicated my time in conducting Ugadi and Sankranti Festival Event.
- Active member of Shutter box Club. The Photography club in IITDMJ.