

Katakamsetty Phalgun

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EDUCATION

ICFAI Tech

Bachelors in Electronics and Communication Engineering

CGPA: 7.96

Sep 2020 – June 2024

Hyderabad, India

FIITJEE (BIE)

Intermediate / Higher Secondary Education

CGPA: 7

May 2018 - Apr 2020

Hyderabad, India

PROJECTS

Design of Fractal shaped Microstrip Patch Antenna | CST Studio

Jan 2023 - Mar 2023

- Conducted research and designed antennas utilizing fractal geometries to optimize performance.
- Engineered antennas to operate efficiently at 2.4 GHz and across multiple frequencies, such as those used in Wi-Fi and wireless applications.

Line Follower Robot | Arduino

Aug 2022 – Dec 2022

- Developed a line follower robot capable of detecting and tracking lines on the floor using sensors.
- Integrated obstacle avoidance functionality to enable the robot to navigate around obstacles while maintaining its course.

INTERNSHIPS

IHUB-DATA | IIITH

Young Research Embedded and IoT Intern

Jul 2024 - present

Hyderabad, India

- Working on Brain-Computer Interface (BCI) project hardware and communication systems.
- Conducting research on EEG data for BCI applications and currently exploring Edge AI integration for real-time processing.

NRSC | ISRO

project Intern

Jan 2024 - June 2024

Hyderabad, India

- Designed a multi polarized microstrip patch antenna for frequencies of 3.2 GHz under scientist's guidance.
- Experimented with different polarizations and frequencies to optimize antenna performance for specific applications.

EyeNetAqua | IIT Madras Research Park

IoT intern

July 2023 - Dec 2023

Chennai, India

- Focused on integrating electronic components and sensors with Arduino and Raspberry Pi platforms.

- Connected and configured sensors, modules, and devices to enable interaction and task performance as per project requirements.

DRDL | Brahmos

Project Intern

June 2023 - August 2023

Hyderabad, India

- Collaborated on integrating Qt framework with Arduino technology for DRDL ongoing project.
- Facilitated communication between Qt-based user interface and Arduino hardware to enable seamless interaction and control

WIKI Kids

HTML Intern

May 2022 – July 2022

Hyderabad, India

- Enhanced company website's appearance by refining HTML templates.
- Implemented HTML code for website sections to ensure functionality and aesthetics

TECHNICAL SKILLS

RF Tools	:	CST, HFSS
Mathematical Tools	:	MATLAB
Programming Languages	:	Embedded C , C++, Python
Hardware development	:	Arduino, Raspberry PI, ESP32

Volunteer's

- **President of Nexus Photography Club at ICFAI Tech**
 - Led a 20-member team in planning and coordinating diverse activities including photography contests, workshops, and field trips, while actively mentoring members to foster a supportive community for passion-driven skill development.
- **Tech Head of Asana Club at ICFAI**
 - Specialized in video and picture editing, significantly enhancing club activities by leveraging technical expertise to contribute to the overall success of events and initiatives within Asana Club at ICFAI Tech.