

# ANIRUDDHA N BAYARI

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## SUMMARY

Enthusiastic and dedicated engineering student passionate about tackling challenges through practical projects. Thrives in both solo and group environments, leveraging effective communication skills to improve teamwork and project success. Eager to apply academic knowledge and hands-on experience to make impactful contributions in real-world settings.

## EXPERIENCE

### **Internship at Centre for Airborne Systems (DRDO)** October 2024

- Developed a high-performance dual-branch CNN for RGB-IR image fusion, incorporating Conv2D and upsampling layers with custom layers optimized for real-time multi-channel image processing.
- Built end-to-end deep learning models for multi-sensor image data, delivering high-resolution outputs and utilizing ONNX to convert Python code to C for efficient deployment on local devices.

## EDUCATION

**R V College of Engineering** *Bengaluru, Karnataka*  
*Bachelor of Engineering in Computer Science, 2022-2026* **CGPA:** 9.30

**R V PU College** *Bengaluru, Karnataka*  
*Pre-University, 2020-2022* **Percentage:** 95.8%

**PES Public School** *Shivamogga, Karnataka*  
*School, CBSE, 2010-2020* **Percentage:** 93.4%

## TECHNICAL SKILLS

- Web Development:** HTML, CSS, JavaScript, NodeJS, ReactJS, MongoDB.  
**Programming Languages:** C programming, C++, Basic Python, SQL.

## PROJECTS

### Smart Robotics

- Built a ReactJS web interface for user input of motor sequencing parameters, with Firebase integration for cloud-based data storage, transmission to ESP32, and storage on an SD card for offline access.
- Developed a real-time operating system (RTOS) to control motor sequences based on parameters from the cloud, enabling seamless real-time updates and monitoring of motor sequencing values, ensuring synchronized communication between the web app and hardware components.

### Full Stack Web Development

- Developed responsive frontends in ReactJS to mimic the user interfaces and functionality of popular platforms like Airbnb, Spotify, and Zerodha, focusing on user experience and seamless navigation.
- Implemented scalable backends with Node.js and MongoDB to handle core features such as booking, music streaming, and trading, ensuring efficient data storage and retrieval aligned with the demands of each platform.

## CERTIFICATIONS

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| • <b>Delta (Full Stack Web Development)</b>        | by APNA COLLEGE        |
| • <b>IoT and ML training</b>                       | by BOLT                |
| • <b>Programming in C</b>                          | by INFOSYS SPRINGBOARD |
| • <b>C++ Programming - From Beginner to Beyond</b> | by UDEMY               |