

# Santosh Kumar Giri

Bengaluru, Karnataka

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## Summary

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Completed Bachelor of Engineering in Electronics and Communication from Ramaiah Institute of Technology with a CGPA of 7.51. Strong foundation in electronic systems, controllers and programming. Seeking opportunities to engage in diverse projects that address real-world challenges, I am eager to apply my skills and innovative mindset to contribute to impactful solutions.

## Education

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**Bachelor of Engineering (Electronics and Communication)** 2023 – 2025

Ramaiah Institute of Technology, Bengaluru

**CGPA: 7.51**

**Diploma in Electronic and communication Engineering** 2022

Government Polytechnic, Kalaburagi, Karnataka

**Percentage: 90.26%**

**Secondary Certificate (X, KSEEB)** 2019

Mahatma Gandhi High School, Wadi(jn), Karnataka

**Percentage: 79.36%**

## Experience

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**Apprentice Engineer** August 2025 – Ongoing

Ministry of Defence ,Bharat Electronics Limited (BEL), Bengaluru

- Working in Product Development and Innovation Center(PDIC).
- Microcontroller firmware development and testing.
- Desiging Python GUI for Microcontoller interfacing.

## Project

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### Radar Sea Clutter Suppression using Deep Neural Network

- Applied Deep Neural Networks to suppress clutter in radar PPI images using MATLAB.
- Created synthetic datasets by generating two-target PPI images for training and testing
- Designed and implemented a custom neural network, 'RadarNet', to suppress sea clutter.

### Interactive Travel Website with Animation Interface

- Designed a website providing transportation options with dynamic timing updates.
- Implemented interactive animations using JavaScript and CSS to enhance user experience.

### Smart Marine Logistics Management System

- Developed an IoT-based Smart Marine Logistics Management System using ESP8266 (NodeMCU), Arduino, RFID, GPS, and sensors for real-time cargo and ship monitoring..
- Implemented software for sensor data processing, cloud integration, and real-time dashboards using ThingsBoard with automated alerts..
- Built a machine learning–based weather prediction module using XGBoost and sensor data to support route planning and emergency decision-making..

## Skills

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- **Programming:** Python, C, C++
- **Web:** HTML, CSS,
- **OS:** Linux/UNIX, Windows
- **Soft Skills:** Leadership, Teamwork, Communication

## Achievements

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- 2st Place – I SPY Coding Treasure Hunt, RIT TechFest 2023
- 3rd Place – Circuitrix Quiz, RIT TechFest 2023