

Vedant Goraksha

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Summary

Electronics and Computer Science (ECS) engineering student with a strong interest in embedded systems, software development, and innovative technology projects. Currently developing a smart blood pressure monitor using ESP32, with a focus on learning and applying embedded systems concepts. **Leading the development** of a smart blood pressure monitor with **real-time health data tracking**. Proficient in **C/C++, Python, HTML**, and **CSS** with practical experience in **image encryption techniques and drone development** as part of Team Mavericks UAS. Demonstrated leadership, teamwork, and problem-solving abilities, with a passion for building impactful tech solutions that address real-world challenges.

Experience

Junior Member – Team Mavericks UAS (2023-present)

- **Organized a seminar** introducing 50+ school students to drone technology.
 - **Planned and executed** a drone event at Crescendo Tech Fest.
 - **Collaborated on drone design** and **participated** in the SAE competition, enhancing **team collaboration** and technical skills.
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Projects

1. Smart Blood Pressure Monitor (ongoing)
 - Leading the development of a smart blood pressure monitor using the ESP32 microcontroller, integrating a pressure sensor and vibration sensor to measure systolic and diastolic blood pressure accurately.
 - Designing a mobile app using React Native for real-time data visualization and tracking.
 - Configuring sensors and microcontroller firmware in C++, optimizing the system for precise measurements.
 2. Image Encryption Tool using Chebyshev and Chirikov Maps
 - **Developed an encryption tool using advanced techniques** such as **DNA sequencing** to enhance image data security..
 - **Implemented unique encryption algorithms** based on **Chirikov and Chebyshev maps**, providing a robust and distinct method for securing image data.
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Education

B.E. Electronics and Computer Science (ECS)

Fr. Conceicao Rodrigues College of Engineering (2022 – Present)

CGPA: 7.79

Skills

Programming Languages: C/C++, Python, JavaScript

Tools: MATLAB, Simulink

Web Development: HTML5, CSS3, JavaScript