

Tarun Karrthick R S

✉ karrthicktarun@gmail.com ☎ 9750317611 ↗ Leetcode in LinkedIn 🐙 Github

Career Statement

A current engineering student seeking opportunities in a dynamic and challenging environment that fosters continuous improvement and learning. Motivated to contribute to organisation growth and personal development within the engineering industry.

Education



B.E. Electronics and Communication Engineering *Oct 2022 - Present*
Sri Krishna College of Engineering and Technology

- GPA: 8.53 (current)



Higher Secondary *2020 - 2022*
Keartiman Matriculation Higher Secondary School

- Percentage: 93.17



Projects

Self-Balancing Robot  [GitHub](#) 



- Designed and built a self-balancing robot using PID control algorithms, implemented with MPU6050 sensor
- Tools Used: C++, Arduino
- Tuned PID parameters to achieve stable balancing on uneven surfaces

Fantasy Sports Platform  [GitHub](#) 

- Built a MERN stack platform with user authentication, team selection, and sports data integration via third-party APIs
- Tools Used: MongoDB, Express.js, React, Node.js
- Implemented role-based access and optimized API calls for faster data retrieval

Face Recognition Attendance System  [GitHub](#) 

- Developed a real-time attendance system with face detection and CSV logging using machine learning
- Tools Used: Python, OpenCV
- Implemented efficient face detection to handle large groups and ensure quick attendance logging

Vision Cursor  [GitHub](#) 

- Created a tool to control the mouse pointer using eye movement tracked via webcam
- Tools Used: Python, OpenCV, PyAutoGUI
- Added eye-blink detection for click events to enable full hands-free interaction

Skills

Languages: C++, Java, C, JavaScript, Python (Basics), HTML, CSS, MySQL, MongoDB

Developer Tools: IDE (VS Code, Arduino IDE, MPLAB IDE), VCS (GitHub, Git, CodeCommit)

Web Development Tools: Bootstrap, React, MERN Stack

Hardware: Arduino, PIC16F877A, Intel 8051

Libraries: Flask, OpenCV, Numpy (Basics)

Experience

◦ **Intern - Embedded System Development** *June 2024*
MSME Technology Development Centre

◦ **Intern - Quality Control** *July 2024*
Salzer Electronics