MALAY KUMAR

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EDUCATION

Bachelor of Technology Computer Science, Vellore Institute of Technology, Chennai — Expected 2025
Current CGPA: 9.28

Intermediate in Sciences, City Montessori School, Lucknow — 2019 - 2021
Secured: 94%

SKILLS

Languages	Python, C/C++, Java, HTML/CSS, Javascript
Developer Tools	Robotics Operating System, OpenCV, Git and Github, VSCode, Anaconda, Firebase
Relevant Coursework	Data Structures and Algorithms, Web Development, Object-Oriented Programming

EXPERIENCE

Research Intern — Present
HCL Technologies

- Currently focused on enhancing the bin-picking process using a robotic arm by leveraging 6DOF pose estimation techniques. The aim is to improve accuracy and efficiency in identifying bins, enabling seamless automation and optimization in industrial settings.

Robotics Engineer — Mar'22 - Present
Technocrats Robotics, VIT-Chennai, India

- Successfully programmed a robot for ABU Robocon 2023, to achieve seamless navigation, task execution, and efficient decision-making capabilities in line with the given problem statement using joystick control over MQTT Protocol.
- Developed a precise PI controller for the robot, utilizing ArUco markers to achieve alignment.

Contributor — Oct-2022
HactoberFest

- Successfully completed Hacktoberfest by actively contributing to open-source projects, making valuable contributions that positively impacted the community.

PROJECTS

QR Based Attendance System [NEXTJs | Node | RestAPI] — Present
Microsoft Innovations Club
We are developing a QR-based attendance system Enabling seamless data management and secure attendance tracking with an intuitive user interface.

RFID Based Canteen Management System [ESP8266 | C++ | PHP] — Mar'23
Personal Project
Implemented an RFID-based Canteen Management System using ESP8266 for seamless identification and transaction processing. Integrated with a user-friendly UX/UI developed in PHP and hosted on a web server for intuitive and convenient canteen operations.

Pole Detection [YoloV5 | Python | ROS] — Jan'23
Personal Project
Implemented the YOLOv5 deep learning model trained on a custom dataset to accurately identify and locate poles in real-time. Integrated with the Robot Operating System (ROS), it enables seamless integration with robotic systems for various applications such as autonomous navigation and object manipulation.

ACHIEVEMENTS

- Cleared Stage 1 of ABU Robocon 2023
- Completed Google Cloud Career Practitioners Pathway program
- Max. Codechef Rating – 1584 under handle Malayk
- Qualified for the first round of Meta Hackercup 2022
- Successfully completed the HactoberFest 2022