

Vaibhav Raheja

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Education

Mukesh Patel School of Technology Management & Engineering, Mumbai, India Bachelors of Technology Computer Engineering (CGPA - 3.63/4) • Relevant Courses: Robotics, Embedded System and AI	2017 – May 2023 Expected
Mukesh Patel School of Technology Management & Engineering, Mumbai, India Diploma in Computer Engineering	2017 – 2023

Professional Experience

AIIMS (All India Institute of Medical Sciences) Hospital, New Delhi, India Research Intern • Research Project to Implement Robotic Oral Surgery Using a Robotic Arm and Develop Control Systems using ROS and Python for the Robot • Project funded by the ICMR (Indian Council of Medical Research)	Feb 2021 – Feb 2023
Granuler: CIO Consulting, Mumbai, India Intern • Project CRM (Customer Relation Management Implementation) - Implemented a CRM system for Granuler CIO Consulting. - Gathered requirements from the client and finalized them on HubSpot CRM. Implemented them and trained the client on the same. • Project RPA (Robotic Process Automation) - Used UiPath to automate the CEOs workflow by reducing the time to less than 30 mins	Jan 2020 – May 2020
Intelligence Node, Mumbai, India QA Intern • learned the basics of web applications, understood beta testing and implemented tests on multiple web applications.	Jul 2018

Academic Projects

Chronic Disease Detection System using Machine Learning B.Tech Final Year Project • Developed an expert system used to detect/predict various chronic diseases by collecting various health details of a patient using Machine Learning models to provide a helping hand to doctors. With an accuracy of over 90% • Implemented for: COVID-19, Pneumonia, Heart Disease, Chronic Kidney Disease, Diabetes	2021 – 2022
Home Automation • Developed a complete system to control most electronics from a mobile phone or using voice commands on google assistant. • Achieved this using ESP-8266 microcontroller. Some electronics include Lights, fans, Air conditioners, and RGB-controlled lights.	2020
Soft Robotics Hand • Soft Robotics Hand controlled by stepper motors that will be able to grab almost any object • It reads my hand's position using OpenCV and replicates it onto the robotic hand. • The future scope of this is to assist doctors in holding specific tools during surgery.	2022
Skin Disease Detection • Used Transfer Learning with CNN (Convolutional Neural Network) to detect over 20 Skin Diseases with an accuracy of 90%	2019

Publications

Multi-Disease Prediction System using Machine Learning IEEE International Conference on Futuristic Technologies (INCOFT)	2022
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Extra Curricular Activates

Intelligent Ground Vehicle Competition, Detroit MI, USA

2020 – 2022

Vice-Captain

- Achieved 3rd place at an annual international competition hosted at Oakland University, Michigan, in which multidisciplinary teams compete to create an autonomous vehicle according to a set of rules in order to compete. Developed a fully functioning autonomous vehicle with object detection, path planning & traversal.

Rotaract Club of Bombay Airport, Mumbai, India

2019 – 2021

Board of Director of Club Service from 2020-21

- Initiated all Club Service activities, supervised and coordinated the work of the committees appointed for particular aspects of Club Service and ensured the smooth and effective running of the club, and created a climate and culture that make our club inviting, appealing, and interesting.

e-Yantra Robotics Competition (eYRC), Mumbai, India

2020 – 2021

- A Competition held by IIT Bombay. Our task was to make a drone for the delivery of parcels

The Editorial Project by MPSTME, Mumbai, India

2019 – 2020

Head of Logistics

- Organised a concert by The Local Train at JRM Grounds

Lane Detection using Hough Transform and Histogram

2019

- Wrote an article to explain lane detection using computer vision using the Hough Transform. This article has approximately 400 reads.

Roller Hockey, Mumbai, India

2012 – 2013

Team Captain

- Achieved 3rd place in a National Level Roller Hockey Tournament in Haryana.

Technical Skills

Programming

- Python
- C++
- ROS
- Machine Learning

Micro-Controller Boards

- Arduino
- Raspberry Pi

Software

- Fusion 360
- MS Office