

Vishrut Chawla

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SUMMARY

I am a Robotics and Autonomous Systems Master's student with over two years of experience in front-end web development and supply chain. I am seeking options to work in the domains of mechatronics system, machine learning and embedded system. I have experience working with robots and software with an internship in Robotics domain. I am focused on industrial, manufacturing, or product development but open to exploring other fields as well.

EDUCATION

M.S. Robotics and Autonomous System

Expected August 2025

Arizona State University, Polytechnic-Mesa, AZ

B. Tech Electronics and Communication Engineering

June 2019

Amrita Vishwa Vidyapeetham, Bengaluru, India

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C++, Simulink, Studio 5000, Unity, AutoCad

Robotics Software: ROS, Roboguide

Embedded Systems: Raspberry Pi, Arduino, ESP 32

INTERNSHIP

Conmet, Monroe NC, USA: Robotics Intern

June 2024-August 2024

- Simulated Fanuc Cobots in Roboguide software, which includes creating robotics programming in teach pendant
- Connected Allen Bradley-manufactured PLC to robot by reading electric schematics
- Developed floor planning for office using AutoCad

ACADEMIC PROJECTS

All In One Smart Health Checkup Device, 2019 Global Conference for Advancement in Technology (GCAT)/IEEE

- Developed a non-invasive health measurement system using Raspberry Pi

Computer Vision-Powered Tic Tac Toe Robot: Engineered an OpenCV-Based System for Dynamic Gameplay

- Developed a Tic Tac Toe game using a six degree of freedom Mycobot robot, implementing the game logic in Python.

Soft Robotic Device to Manage Hypertonicity

- Developed a soft robotics device, in collaboration with Barrow Neurological Institution, to help hypertonicity patients extend their elbow.

Developed AR/VR Software

- Developed VR and AR Android Application Package (APK) using Unity 3D for Quest Headset.

Developed Machine Learning Algorithm to Predict House Prices

- Developed a machine learning algorithm to predict house pricing via Google Satellite images using Yolo software

IoT Library Monitoring System

- Built an IoT solution with a webcam to track missing books via image processing.
- Integrated cloud storage for real-time issued book updates and library management.

Bio-Inspired Foldable Robot

- Developed a foldable robotic mechanism inspired by ant limbs, utilizing Sarrus linkages for agile locomotion with lightweight materials.

PAST WORK EXPERIENCE

Techprise Solutions, Bengaluru India: Web Developer Associate

October 2019-October 2020

- Developed webpages and debugged existing issues which increased web traffic by 30 percent.

Hical Technologies Pvt. Ltd, Bengaluru, India: Junior Sourcing Engineer

February 2021-May 2023

- Identified optimal electrical COTS components through technical and quality analysis.
- Reviewed and negotiated with approximately ten suppliers, achieving a 12-week lead time reduction and cost savings of \$93k.