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 laboratories in the domains of mechatronics system, machine learning, and software. 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++, MATLAB, Studio 5000,Unity,AutoCad
Robotics Software: ROS, Roboguide
Embedded Systems: Raspberry Pi, Arduino

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

WORK EXPERIENCE

Techprise Solutions, Bengaluru India: Web Developer Associate   **October 2019-October2020**
- Developed webpages and debugged existing issues which increased web traffic by 30 percent.

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