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 based project on controlling a ESP watch to contol

* Developed an IoT-based smartwatch using an ESP32 chip, enabling control and monitoring through Simulink software, showcasing advanced integration of wearable technology and IoT applications.

**PAST 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.