Vishrut Chawla

980-403-5569 • [vchawla7@asu.edu](mailto:vchawla7@asu.edu) •[www.linkedin.com/in/vishrutchawla](http://www.linkedin.com/in/vishrutchawla)

## 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

**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.