

# Ajay Yadiki

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## **Objective**

Actively looking for a position where I can learn and contribute my knowledge and skills at the same time, grow with the organization.

## **Technical Skills**

Programming Languages : C#, Python, PLC programming, and C++.  
Software Tools : VS Code, Spyder, LabVIEW, MATLAB, ROS, OpenCV, Jupyter Notebook.  
3D Modelling Software : Autodesk Inventor, SolidWorks, and AutoCAD.

## **Professional Experience**

**Casual Employee (Intern)**, C.P.E. Systems N.Z. Ltd. Mar 2019 – Mar 2020

Delivering innovative Test & Measurement and Data Acquisitions solutions.

*Achievement/Tasks:*

- Development of system software for projects and products using LabVIEW, Python & SQL.

**Systems Engineer (Mechatronics)**, Sasyaka Engineering Pvt. Ltd. Dec 2016 – Jan 2018

Providing custom engineering solutions in the field of Mechatronics and Industrial Automation.

*Achievement/Tasks:*

- Development of Real-time system software for A.T.E (Automated Test Equipment), Bionic Machine, Endurance Testing, Destructive Testing, N.V.H (Noise, Vibration & Harshness) Analysis and Industrial Automation.
- I developed software features such as Report Generation with Encryption (US FDA Standards), Interactive HMIs, Automated Test Sequences & Vision-based measurement modules.
- I developed software for 12 PLC based automated machines and deployed at a customer's factory single-handedly.

**Creative Technologist**, Crossworks Pvt. Ltd. Jul 2015 – Nov 2016

Experiential marketing company providing techno-driven services

*Achievement/Tasks:*

- Development of Interactive (gamified) automated vending machines.
- I developed 4 products involving HMI, system software, and machine design (CAD).
- Built working prototypes and proof of concepts using various products such as Microsoft Kinect, Leap Motion, Arduino, Raspberry Pi, Software APIs (Android and Web-based), Opensource Hardware/Software and often used a wide variety of sensors.

**Microsoft Student Partner**, Microsoft India. Aug 2014 – Jun 2015

I was entrusted with the task of carrying the value of Microsoft's offerings to students in my university region.

*Achievement/Tasks:*

- Organized and conducted technical sessions, seminars, and webinar events in the university.
- Lead the hands-on labs (classroom learning) with more than 50 students on the development of Windows Mobile and Desktop Applications.

## Post-Graduate Projects

### **Stewart Platform for earthquake-resistant structures simulations**

Aug 2019 – Nov 2019

Research on using the Gough-Stewart Platform for simulating an earthquake in six degrees of freedom motions.

### **Development of an Adaptive Prosthetic Gripper/Hand**

Sep 2019 – Oct 2019

Development of reliable, lightweight prosthetic gripper that can perform a power grasp and precision grasp of test objects. The gripper is prototyped using 3D printing technology and Hybrid deposition manufacturing technique.

### **Industrial Automation**

May 2019 – Jun 2019

Demonstration of a manufacturing plant project which involves complex controls system that uses computer vision, Industrial robots (KUKA), a conveyor belt, pneumatic actuators, and a controller (NI MyRIO).

## Undergraduate Projects

### **Simulated Embedded Systems**

Jan 2015 – May 2015

Research on different types of programmable I.C., easy selection, and prototyping on simulated Software.

### **Vision recognition robot**

Jun 2014 - Jul 2014

Development of a vision recognition robot that works as an autonomous car, recognizes traffic light signals by using machine learning (supervised learning module LabVIEW) and avoids obstacles using ultrasonic sensors.

## Industrial Trainings

- Industrial Training Program on **Advanced Embedded Systems** Jan 2015 - May 2015
- Industrial Training Program on **Virtual Instrumentation** using LabVIEW Jun 2014 - Aug 2014

## Achievements

- ❖ **Microsoft Student Partner** (M.S.P.) for the academic year 2014 – 2015 at Shobhit University.
- ❖ I secured A & A+ grades in all Labs during my undergrad at Shobhit University.
- ❖ I secured All India Rank: **981** in National Science Olympiad held by EduHeal Foundation in 2008.

## Educational qualifications

<u>Course</u>	<u>Institute</u>	<u>Graduation Year</u>
<b>Master of Engineering Studies (Mechatronics)</b>	The University of Auckland, Auckland, New Zealand	March-2020
<b>Bachelor of Technology (Mechatronics)</b>	Shobhit University, Meerut, UP, India.	June-2015

## Extra-Curricular Activities

- ❖ Coordinator in Project Vision – an Electronics department club for aptitude and reasoning tests.
- ❖ I coordinated technological workshops at Shobhit University.

## Languages:

English (Read/Write/Speak), French (Read/Write), Hindi (Speak), Kannada (Speak), Telugu (Speak)