

## Summary

- A confident and creative programmer who is self-motivated in a quickly changing environment. A strong background in both software, and hardware including proficiency Python, Java, C/C++, and Swift. And experienced with mobile app development and Machine Learning.
- Outstanding communication skills in team development or vendors.

## Education

2016- 19 **Pennsylvania State University** Bachelor of Science in *Computer Science (B.A.)*

*Selected Coursework: Design and Analysis of Algorithms, Data Structure, App Programming, Artificial Intelligence, Neural Network, Database Design, Project Management, Compiler Construction, Software Engineering and Design, Discrete Mathematics for CS, Web Developing, and*

2014- 16 **Shoreline Community College** *Associate of Arts in Computer Science (A.A)*

2011- 14 **National Taichung Industrial High School** *Electronic Engineering*

## Technical Experience

**CyberTruck Challenge Participant** *University of Tulsa, Detroit, MI*

*June 2018*

- It is an annual event where it help students to gain better understanding how cyber security play role in cyber security
- Heavy vehicle protocols, like CAN BUS, J1939 and J1708 communications were involved in the hacking process.
- Personal projects on searching vulnerabilities in hardware and software implementations.
- Reverse Engineering techniques such as power analyst, firmware dumping, CAN Bus analyzer were used during the week long event.

**Software Developer** *DigiWin Software Co., Ltd. , Taichung, Taiwan*

*May 2017- Aug 2018*

- Implementing IoT applications into the industrial use management software.
- Increase the knowledge of industrial 4.0 and IoT implementations.
- Design software for both Android and iOS users, Combined back-end database MySQL to provide visualized user interface.
- Developed more efficient algorithms to process all informations sent by the PLC industrial system.

**WordPress Developer** *Quality Athletics Restaurant, Seattle, WA*

*March 2015 - June 2017*

- An employee of the Seahawk Richard Sherman Foundation. An organization specialized in the fundraising of food.
- Design of work follow and database structure.
- Development on Wordpress for forms, and increase the maintainability.
- Technical support and problem solving.

**Electronic Technician** *Online Service for Electronic Products Repair, Seattle, WA*

*Sep 2013- May 2016*

- This virtual shop of mine covered a wide variety of repairing services for a wide range of product types which included
- The mainframe of PC, embedded circuit boards, mobiles and tablets.
- Achieved results of this shop included; Over 150 pieces of electronic devices fixed, establishment of a mid-size client base consisted of 25 contacts, and considerable brand awareness increased among related community groups.

## Leadership Experience

**Engineering Club President** *Shoreline Community College, Seattle, WA*

*Sep 2014 - May 2015*

- Leadership of organizing and managing the club.
- Creative design using AutoCAD, Arduino implementing to large scale projects.
- Robot mouse programming and design efficient algorithms using Java
- Practical skills from brainstorming to final execution of the project.
- Project includes: UAV Design, RC racer machinery, 3D Printer mechanical Design, Sumo bot, and robot mouse.

**Founder and Instructor** *Creative Robot Design Club, Taichung, Taiwan*

*Feb 2012 - April 2013*

- Promote the engineering concepts to the general public.
- Planned operational schemes to make lessons to teach robotic design for beginners.
- how to create regular activities within the club to ensure continual survival of the club.
- Organizing the Attendance of Maker Fair.

## Awards and Accomplishments:

**American Society of Mechanical Engineering Robot**, Sumo Robot *1st Place*

**Race of Automated Computer Mouse (nationwide)**, Hsiuping University *1st Place*

**Finland SciFest Science Fairs** *Gold Award* of the Finland International Science Fairs

**International Micro-Robot Competition** in Japan *4th Place, International Group*

## Technical Skills/Competencies:

Programming Languages: Python, Java, C/C++, Swift, Arduino, SQL, Linux, JavaScript, HTML, Matlab, TensorFlow

Software and Tools: JetBrains, Xcode, Android Studio, Visual Studio, Git, UT Framework, Microsoft Office, AutoCad, Photoshop