

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