**HAN SONG**

Hansong8792@gmail.com | (206) 669-8337 | linkedin.com/in/hanqsong

# SUMMARY OF QUALIFICATIONS

* Bachelor of Science in Mechanical Engineering from University of Washington
* Advanced CAD skills in Solidworks, Fusion 360
* Hands on experience designing and assembling parts for automated/robotic system
* Proven ability to programming LabVIEW, Java, C++ via school projects
* Be able to analyze data, manufacture lab specimen
* Excellent interpersonal skills including written and oral communications

# EDUCATION

## Makerspace Technician June 2015– June 2016

University of Washington - School of STEM

* Train students to use equipment within the Makerspace such as 3D-printers, drill-press, and various tools
* Operating laser cutter base on students' requests
* Attend weekly meetings to review tasks and receive new tasks
* Produce 3D-printed module such as 3D printed accessories, laser cutting robots
* Create workshop on 2D design for student to utilize laser cutter
* Maintenance 3D printers
* Providing safety workshop for students and community
* Design and assemble machines

## Student Assistant September 2015- June 2016

University of Washington – School of Business

* Perform proper customer services both in person and on phone with faculties
* Communicate efficiently with advisors to accomplish project in the shortest period
* File and organize paperwork to keep the office runs productively
* Conduct placement test for school of business

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| *General Assistant*  | *August 2012 – March 2014*  |

Edmonds Community College

* Perform proper customer services both in person and on phone to make students feel welcome
* Communicate efficiently with advisors to provide updated procedures to students
* Accurately interpret between advisor and Vietnamese students for a better understanding to a specific situation
* Translate documents from Vietnamese to English, or vice versa
* Assist advisors to contact students by phone, or emails about important documents, change in procedures, or emergency issues raising students’ awareness about their status
* Coordinate to check new applicants to avoid duplicated applications
* File and organize paperwork to keep the office runs productively
* Demonstrate procedures to new employees along with observe and report the progress to manager in order to give appropriate tasks

# PROJECTS

## Mechanical Engineer January 2015 – April 2015

Multi-Position Thumb 3-D Printed Prosthetic Hand

* Utilize Solidworks to design the hand for printing
* Operate Makerbot 3-D printer to print out the hand
* Test, analyze and modify the prototype to develop the product
* Report both in written and during weekly meeting with mentors
* Present talk at Undergraduate Research Conference 2015

## Project Manager April 2015 –June 2016

## 3D-printed Prosthetics Hands

* Develop current prosthetics by designing new mechanism using Solidworks
* Develop method to incorporating 3D-printing into prosthetics sockets
* Testing new plastic using tensile test machine
* Test, analyze and modify the prototype to develop the product
* Meeting client for preliminary fitting

## Mechanical Engineer September 2015 - December2015

Water Irrigation System

* Applying fluid mechanic into building a gravity fed water system
* Research parts on the market and record the prices and availability
* Present ideas to city engineer for consultant
* Present ideas to client bi-weekly to discuss about feasibility and affordability

*Mechanical Engineer*

Wheelchair sensor *April 2016 – May 2016*

* Applying machine design courses in designing a system that help wheelchair users detect height and depth of objects behind their back
* Quick prototyping the system using 3D printing, and other materials
* Programing Arduino board, C++ and test the system
* Utilizing LabVIEW to calculate the theoretical results and compare with experimental results