

Email: ramonqu@uw.edu

Tel: 628-253-3267

Current City: Seattle, WA

**EDUCATION****B.S. in Informatics**
Minor in Math**University of Washington**
Annual Dean's List 2017-2018

June 2020 (expected)

**SKILLS**

Python	Java	C# .NET	HTML/CSS	Arduino	ROS	SQL Database	PHP
Pandas	C# WPF	JavaScript	Node. JS	Linux	Git	R	Networking

**PROFESSIONAL EXPERIENCE****Research Assistant****Sensor Systems Lab, University of Washington**

Nov 2018 – Present

Assist in the lab led by Professor Joshua Smith, and work on a battery-free, RF-powered platform for sensing and computing. Design the sensor platform and connect with robot platform (ROS). Develop applications about robot social awareness by using that sensor platform.

Research Assistant**Personal Robotics Lab, University of Washington**

Nov 2017 – Present

Assist in various research projects in the lab led by Professor Siddhartha Srinivasa, which includes building hardware, implementing deep learning software, and designing and developing wireless sensor system for the robot. Advised by Rosario Scalise and Tapomayukh Bhattacharjee.

Web Developer**University of Washington, School of Dentistry**

Mar 2018—Present

Design and implement RESTful C# .NET web applications and internal IT applications. Maintain current WordPress website content, graphics, and themes and customize the WordPress Plugins.

Web Developer Summer Intern**Aresoft Co.,Ltd.**

Jul 2017 – Aug 2017

Collaborated with the sales team and major customers to improve the CRM (Customer Relationship Management) website which specialized for privately-offered fund companies. Worked closely with clients to modify the features. (SQL, C#, .NET)

UI Developer, Software Engineer**Astrometric Instruments Inc.**

Dec 2016 – Sep 2017

Built and tested a telescope pointing model solver and error correction desktop software (WPF C# .Net) and collaborated with team members on building the system. Developed the star map graphing library with C#.

**RESEARCH PROJECTS****Perception, sensing, motion planning and robot control using AI for automated feeding of upper-extremity mobility impaired people****Personal Robotics Lab**

Jan 2018 - Dec 2018

Design, research and develop a solution to transmit perception and haptic data wirelessly for ADA to complete feeding motion in the Personal Robotics Lab, which on the Robotics Operating System platform. (Embedded System, Python, C/C++, Linux, ROS) [NeurIPS, Montreal, Canada, 2018. Best Demo Award](#)

Li-Fi Visible Light Data Communication System

Oct 2016 - Apr 2017

Developed the Li-Fi communication system transmitted data wirelessly via light between LEDs and solar panel with two Arduinos as transmitter and receiver. The high-level communication methods are programmed with C# and Python.

A Hybrid Recommender System For Diet Improvement

Sep 2015 – Apr 2016

Designed a recommender system to predict user's taste preference. Mix the taste preference and food health index to help users to improve the dieting experience. (Python, Pandas)

**CERTIFICATIONS & AWARDS**

- Microsoft Technology Associate Certification: Software Development Fundamentals (C#)
- The Yale Science & Engineering Association's Award for the most outstanding exhibit on STEM fair in computer science, engineering, physics or chemistry
- The US Air Force Certificate of Achievement for an outstanding engineering fair project