

# Shirley Wong

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## PROFESSIONAL SUMMARY

Motivated, software-oriented undergraduate student interested in accessibility and usability of human-computer interfaces. Experienced in embedded systems development and consumer electronics sales. Skilled at learning and applying new ideas, methods, and tools.

## EDUCATION

**OREGON STATE UNIVERSITY** | BS ELECTRICAL AND COMPUTER ENGINEERING | BS COMPUTER SCIENCE  
Expected Graduation June 2021 | Corvallis, OR

- Computer Science — Computer Systems Option
- Minor in Asian Languages and Cultures — Chinese Concentration

### Related Coursework

- Analysis of Algorithms
- Computer Networks
- Microcontroller System Design
- Operating Systems

## EXPERIENCE

### GARMIN | SOFTWARE ENGINEER INTERN

April 2019 – September 2019 | Salem, OR

- Integrated communication protocol improvements on retrofit avionics devices using common kernel library.
- Implemented software update log stored in non-volatile memory.
- Tested hardware using JTAG debugger.
- Engaged in code reviews to receive feedback.

### TARGET | TECH CONSULTANT

July 2017 – Present | Albany, OR

- Communicate complex technical information in a palatable way to general consumers.
- Recommend products to suit customers' needs using up-to-date knowledge of consumer electronics.
- Address smartphone issues.

## SKILLS

### PROGRAMMING LANGUAGES

C • Python • C++ • MATLAB •  $\text{\LaTeX}$  • Bash • Assembly • LabVIEW

### SOFTWARE DEVELOPMENT

Git • Jenkins • JIRA • Phabricator

## PROJECTS

### NASA UNIVERSITY STUDENT LAUNCH INITIATIVE | SENIOR CAPSTONE

Sept 2019 – Present

- Design, build, and test a high-powered rocket in a multi-disciplinary team.
- Writing firmware for avionics telemetry unit and developing graphical user interface for ground station.

### REMOTE WEATHER STATION | JUNIOR DESIGN

Nov 2018 – Mar 2019

- Worked with peers to create a telemetry system comprised of a remote unit with environmental sensors.
- Transmitted measurements received at a base station and plotted data on a MATLAB graphical user interface.