# COOPER WUTZKE

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## EDUCATION

**Bachelor of Computer Science** - Eastern Washington University - *2017–2022*

**Mechatronics A.A.S (In-progress)** - Renton Technical College - *01/2024–Current*

## WORK EXPERIENCE

### <u>Mechatronics Lab Assistant</u>

Renton Technical College, Renton WA - *09/2024 – <u>Current</u>*

- Responsible for installing, maintaining, and repairing RTC Mechatronics lab hardware, and software.

- Facilitates organization for the Mechatronics department by creating and updating documentation, preparing/cleaning lab spaces

- Assists students who are behind in coursework or need guidance in lab exercises.

### IT Support Technician

Goodwill Industries of the Inland Northwest, Spokane WA - *08/2020 – 06/2022*

- Administered technical support to all office staff members, as well as retail support across 14 stores.

- Frequent deployment of new hardware such as workstations, tablets, laptops, and other peripherals. Software deployment including new operating system images, software suites and new user setup/creation with Windows Active Directory.

- Server rack hardware management, replacement and installation including servers, UPS, firewalls, and network switches.

## TECHNICAL SKILLS

- Software: C/C++, Python, OO principles, algorithms, data structures, Git, Linux

- Robotics: Digital and mixed-signal circuits, communications protocols (I2C, SPI, UART, USB), knowledge of RTOS, IoT (Internet of Things)

- Hardware: PLCs, soldering, electronic test equipment, knowledge of electrical and mechanical components, power tools.

- Prototyping: Altium365, KiCAD, SPICE simulation, Fusion360, 3D printing.

## PROJECTS

- Annin Robotics AR4 6-DoF Robotic Arm. RTC Capstone project encompassing 3D printing, mechanical and electrical assembly, programming, and team organization.

- STM32G0 breakout board. A 2-layer PCB design built in KiCAD which functions as a small general purpose microcontroller.

- 4 Wheeled Rover. A wheeled robot which uses MQTT to transmit and receive commands from RPI-HMI.