

# Joanna Hughes

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Computer Engineering student seeking an internship Fall 2024.

## Education:

University of the Pacific (Expected May 2025)

- BS in Computer Engineering | GPA: 3.2
- MS in Computer Science | GPA: 3.7

## Summary of Qualifications:

**Programming:** C/C++, Python, HTML/PHP/CSS, System Verilog, Computer Vision

**Software:** Matlab, LTSpice, Excel, PowerPoint, Word, Fusion 360 3D Modelling

**Coursework:** Programming Languages, Digital Design, Circuits, VLSI Design, Data Structures, Design/Analysis of Algorithms, Machine Learning Methods in Cyber Security, Web Development

**Equipment:** Oscilloscope, Waveform Generator, FPGA Cyclone IV, Raspberry Pi

## Projects and Research:

*Electronic "Tree," University of the Pacific*

*Fall 2023 – Spring 2024*

- Won first place against other UOP seniors
- Implemented sustainable energy to create carbon negative system
- Designed and implemented a 17ft<sup>3</sup> air purification system to capture CO2 using environmentally friendly filtration
- Collected data from sensors using Python and RPI4, transferred data to a website created to display information about the ambient and captured CO2

*MP3 player, University of the Pacific*

*Fall 2022*

- Coded hardware with C and assembly
- Worked as a group to create a functioning MP3 player on a TM4C microcontroller
- Used knowledge of circuits to connect an auxiliary port and an LCD screen

## Work Experience:

*Information Technology Intern, City of Stockton*

*August 2023 – April 2024*

- Tracking support tickets using Cherwell Service Management
- Deploying software using the Quest K1000 server
- Imaged computers using the Quest K2000 server
- Installed the imaged computers at city libraries
- Provided customer support remotely using Webex and Cisco connect for communication, and BeyondTrust Remote Support for remote troubleshooting

*Smart City Research Intern, National Science Foundation*

*Summer 2021*

- Developed an automated wheelchair prototype robot
- Utilized Python and C++ for programming
- Obtain directions using QR codes deciphered using Python and Computer Vision
- Presented findings at a professional conference

*CRM Assistant, University of the Pacific*

*Current*

- Maintain and update CRM data for students and faculty, ensuring accuracy and integrity.
- Assist in creating and sending communication materials and track their effectiveness.