

Joshua Wentzel

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Objective: To solve complex problems in a challenging position.

Summary: I enjoy going above and beyond what is required to ensure reliability down the road.

Education

Oregon State University | Graduating: June 2021

Corvallis, OR

Electrical & Computer Engineering | *Computer Science Minor* | *Math Minor* | GPA: 3.6

- Relevant Coursework: Computer Org & Assembly Language, Signals and Systems I & II, Data Structures, Web Design, Digital Logic Design, Electrical Fundamentals, Discrete Mathematics, Linear Algebra, Differential Equations, Vector Calculus, Physics with Electricity and Magnetism.

Skills & Interests

- Languages/technologies: Experienced with Unix/Linux, Python, C, C++, C#, Unity Engine, Lua, Git, Java, HTML, JavaScript, CSS, iOS, Android Studio, MATLAB, Google Analytics. Previously used Swift, Objective-C, Blender, Unreal Engine, Rust, TensorFlow.

Projects

Music Box | <https://github.com/explojoe/musicbox>

January 2020

Signal Processing Project | *python*

- Detects dominant frequencies over time to convert audio to a piano tone locked version.
- Uses harmonic sum spectrum, Gaussian windowing, median filtering, parabolic peak estimation.

Work Experience

CompuCom / Moss Adams | Getronics / Sherwin Williams

Portland, OR and Vancouver, WA

PC Technician

December 17th & 18th 2019 and January 2nd, 2020

- Removed and replaced workstations. Installed additional memory sticks in company laptops.
- Removed and replaced unstable and hazardous laptop batteries.

Lexmark / CompuCom

Albany, OR

Printer Installation Technician

June 20th, 2019

- Safely loaded and transported printers inside a Target distribution center around industrial machinery.
- Identified and implemented methods to more efficiently transport supplies by reducing trips.
- Streamlined the documentation process to ensure tasks were completed in a timely manner

yoR Labs, LLC.

Portland, OR

UX Systems Design Intern

Fall 2016 – Fall 2017

- Used Android Studio to develop user interface for tablet-based ultrasound reading and annotation software.
- Interface used Wi-Fi Direct to connect multiple tablets for larger displays and to connect with heads up display. Used Android Debug Bridge (ADB) to target and optimize resource intensive processes.

Sticky.tv

Portland, OR

Web and Hardware Intern

Spring 2016 – Fall 2016

- Created web-based transit and rideshare display that predicted arrival times for rideshare vehicles, TriMet buses, MAX trains, and Streetcar. Optimized client for Raspberry Pi.
- Used web requests to take GPS coordinates of nearby Car2Go vehicles and find ETA to nearest vehicle.
- Designed all circuitry and software for an interactive display designed to sell ASICS shoes. Customer planned to order 11 more.
- Created animated web-based display for analytical data from emoji app (Two-Stick: Timbers Messenger) designed by the Sticky.tv company. Webserver hosted using MAMP and written in Python.
- Wirelessly connected several Raspberry Pi's with speakers and used Python to create interactive sound art piece.

Other Interests

- Organizations: Member of Eta Kappa Nu, a national honor society for electrical and computer engineering students. Founded and managed Grant High School Programming Club.