

# Jett A Street

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## EDUCATION

### University of Washington

Seattle, WA

Major: Electrical and Computer Engineering

Grad. Jun 2024

Concentration: VLSI Design / Digital Systems Design

Annual Deans list: 2021 – 2023

GPA 3.37

## EXPERIENCE

### University of Washington Engineering Student Council

Seattle, WA

Chairman

June 2023 – Present

- Currently writing a new UWESC constitution for 2023-24 to be ratified during autumn quarter.
- Working with the College of Engineering Career Center to execute a new UW-managed fall career fair.

### Li3Go

Las Vegas, NV (Remote)

Engineer

June 2022 - Present

- Implemented a patented multi-grid power management system using Python on a prototype class A motorhome retrofitted with solar panels.
- Designed hardware agnostic database schema to support multiple brands of solar inverters.
- Experience socket programming with UDP and Modbus over TCP.
- Attended Quartzsite RV trade show and presented an informational seminar.

### Husky Flying Club

Seattle, WA

Vice President

Sept 2020 - Present

- Successfully planned, pitched, and managed a \$105,811 grant to build the first UW light-sport aircraft.
- Created the first FPV-drone racing team on campus. Awarded \$9,000 towards managing a HFC drone fleet.
- Partnered with local flight schools to offer club members discounted flying lessons and free ground school.

### Spokane Public Schools

Spokane, WA

Student CTE Tech Support

June - Sept, 2018 - 2021

- Upgraded hardware and software, organized and restructured computer labs.
- Provided technical support to teachers and administrators in the summer months.
- Installed and configured Aruba networking hardware in newly constructed schools.
- Assisted in preparing 60,000 student laptops for the rapid adoption of online learning due to COVID-19.

## TECHNICAL QUALIFICATIONS

**Languages:** C, Java, Python, HTML, CSS, JavaScript, Lisp, Bash, MATLAB, R, SQL, SystemVerilog, ARM.

**Software:** LTSpice, HSpice, MultiSIM, ModelSim, Intel Quartus, Cadence Virtuoso, VMWare/QEMU, Git, MS Office.

**Systems/Libraries:** GNU/Linux, FreeBSD, Cisco IOS, SciPy, NumPy, Pandas, PyLance, SQLAlchemy.

**Skills:** Soldering, oscilloscopes, function generators, leadership, communication, organization.

## PROJECTS

### Circuit Design and Analysis

- Proficient in DC, AC, and nonlinear circuit design and analysis.
- Designed and built an adjustable output AC to DC power supply with less than 100 mV of ripple voltage.

### Signals Processing

- Implemented programs in Python to synthesize, plot, play, analyze and filter time functions.
- Proficient with convolution of signals, Fourier series and transforms, and linear time-invariant filters.

### Computer Architecture

- Implemented a 32-bit pipelined 5-cycle ARM CPU using SystemVerilog.
- Wrote an IEEE-754 floating point addition algorithm in ARMv7 assembly.
- Gained proficiency in digital logic and HDL programming using an Intel DE1-SoC FPGA.

### Vintage Computers

- Constructed multiple replicas of 8-bit minicomputers from the 1970s.
- Collects and restores 2000s PDAs, vintage Apple computers, and IBM-era ThinkPads.