

# Jett A Street

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## EDUCATION

### University of Washington

Seattle, WA

Master of Science, Electrical Engineering

Grad. Jun 2028

Bachelor of Science, Electrical and Computer Engineering

Grad. Jun 2024

## TECHNICAL QUALIFICATIONS

**Languages:** C, C++, Java, Python, JavaScript, Lisp, Bash, Make, MATLAB, R, SQL, System Verilog, ARM

**Software:** SPICE, Xilinx Vivado/Vitis/Petalinux, Cadence Virtuoso/Innovus, Calibre DRC/LVS, Altera Quartus

**Systems/Libraries:** GNU/Linux, Cisco IOS, NumPy, Pandas, MySQL, Plotly, Docker

## EXPERIENCE

### The Boeing Company

Seattle, WA

ASIC/FPGA Design Engineer Level 1

Aug 2024 – Present

- Supports Boeing Phantom Works and Boeing Disruptive Computing and Networks (DC&N) to prototype and demo hardware designs for space networking devices
- Developing a python API that synchronizes Xilinx Versal FPGAs in a demo environment to simulate a space router constellation
- Writing RDMA software suite in C to coordinate a network of Xilinx Versal FPGAs interfacing with custom hardware and Xilinx Core IP

### University of Washington Engineering Student Council

Seattle, WA

Chairman

June 2023 – June 2024

- Presided over monthly UWESC meetings to bring dialogue between Engineering Student Organizations
- Wrote a new UWESC constitution and developing a budget for 2023-24
- Worked with the College of Engineering to organize a career fair that raised \$40,000 for student clubs

### Li3Go

Las Vegas, NV (Remote)

Engineer

June 2022 – Aug 2023

- Implemented a patented multi-grid power management on a solar-retrofitted class A motorhome
- Designed hardware agnostic database schema to support multiple brands of solar inverters
- Inventor on USPTO Patent Number US11932135B2

### Husky Flying Club

Seattle, WA

Vice President

Sept 2020 – June 2024

- 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

## 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 in SystemVerilog using Intel Quartus and ModelSim
- Wrote an IEEE-754 floating point addition algorithm in ARMv7 assembly
- Gained proficiency in digital logic and SystemVerilog programming using an Intel DE1-SoC FPGA

### VLSI / ASIC Design

- Designed a functional 45nm 16-bit register file from scratch using Cadence Virtuoso
- Worked with Google's skywater 130nm PDK to implement RTL Verilog using Cadence Innovus
- Proficient with Static Timing Analysis, Signal Integrity Analysis, DRC/LVS