

MATTHEW ROTH LISBERGER

Logan, UT

<https://github.com/asterane>

mattjrothlis@gmail.com

Capable student with customer service experience and advanced technical ability. Looking to utilize expertise from years of development and engineering to solve important problems.

RELEVANT SKILLS

Software

- Intermediate C, C++, and Rust programming
- Coding on Linux, Windows, & microcontroller
- Experience debugging with GDB and Valgrind
- Familiar with data structures and algorithms
- Writing fast, memory safe, low level code

Communication

- Typing speed of over 80 words per minute
- Reading / writing technical documentation
- Project work with multidisciplinary teams

Electronics

- Verilog, Vivado, and FPGA programming
- Operating mixed signal oscilloscopes
- Electronic design with Kicad, LTspice, & paper
- Analog & digital circuit design and analysis
- Design with nonlinear circuitry / op amps
- Familiarity with DSP techniques and FFT
- Knowledge of communications techniques
- Integrated hardware / software system design
- Troubleshooting complex integrated systems

EDUCATION

Utah State University (USU)

Bachelor of Science in Electrical Engineering

Logan, UT

Expected completion 2025

Thomas Jefferson High School for Science and Technology (TJHSST)

Electrical Engineering Focus

Alexandria, VA

Class of 2020

- **Coursework:** Electronics Research, Microprocessors, Computer Science, Technical Theater

EMPLOYMENT

USU Event Services

Event Technician

Logan, UT

2021 - Present

Fairfax County Public Schools

Senior Student Technician

Fairfax, VA

2018 - 2020

- Worked events effectively for hundreds of hours and secured promotion
- Communicated with others to enable and oversee events in a variety of spaces

EXTRACURRICULAR

USU Students for the Exploration and Development of Space

URC Rover Team Member (Vehicle Dynamics & Communications)

Logan, UT

2021 - Present

TJHSST Drama

Lighting Engineer, Lead Set Designer, Architect

Alexandria, VA

2017 - 2020

- Engineered completely custom, massive, modular LED display for a show
- Facilitated manufacture of large movable set pieces for four major productions
- Authored manual on spotlight operation for future student technicians