

# MATTHEW BRUMMUND

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## EDUCATION

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### **BS, Computer Systems Engineering (CSE)** **2023 - 2026**

- Arizona State University, Ira. A Fulton & Barrett Honors College • Tempe, Az
- Cumulative GPA: 4.0
- Relevant coursework: OOP and data structures, Engineering team leadership and collaboration, Essentials of programming, Multivariable calculus, In-depth java based programming exercises

### **BASIS Oro Valley, High School** **2019 - 2023**

- GPA: 3.91 • Graduated with honors • Number 21 in the nation (U. S. News and World Report)
- Relevant coursework: AP Calc AB & BC, 14 total AP tests

## SKILLS

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### **Programming Languages**

- Java, Rust, Python, HTML, CSS, Javascript, Bash Scripting, MATLAB

### **Software**

- Git, VirtualBox, DiskPart, Linux Command Line, PyCharm, Visual Studio, Eclipse IDE, MATLAB, linux CLI, Virtual machines

## PROJECTS

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### **DORA (Deployable Optical Receiver Aperture)** **Launches Spring 2024**

- Assisted the software development team of DORA (Deployable Optical Receiver Aperture) • a 3U cubeSat fielded by the LoCo Lab at ASU • Launches to orbit early 2024
- Wrote the read\_ADC function using Rust • Reads a number of current values from a payload sensor, and either returns their average, or writes them to a file, which is then compressed
- Developed Playback to read a sample of telemetry files, to reduce file retrieval times from orbit, written in Rust
- Handled error checking for command edge cases in a zero-fault-tolerant base, as well as general bug correction

### **Personal Website ([www.matthewbrummund.com](http://www.matthewbrummund.com))**

- Developed personal website to serve as an interactive online resume to demonstrate front-end web development skill
- Made with HTML, CSS, and Javascript, and hosted on Github pages • Repository link: [MatthewBrummund.github.io](https://MatthewBrummund.github.io)

### **Project SPYN (Autonomous Vehicle)** **8/2023 - 11/2023**

- Led a team of 5 to Design, Build, and Program a maze-solving car • Programmed in MATLAB, the vehicle, "ROBB", can navigate any maze with a closed continuous wall

## WORK EXPERIENCE

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### **The Tutoring Center, Senior Tutor** **12/2021 - 8/2023**

- Tutored Students (K-12) in their schoolwork and studying • Specialties in math, physics, and writing (~840 hours)
- Trained new tutors in Tutoring Center methods • Communicated with parents and oversaw active tutors

### **Teaching Assistant (Economics)** **8/2022 - 5/2023**

- BASIS Oro Valley • Macro and Micro-Economics • Oro Valley, Az
- Led in-class lessons • Created class study materials • Graded student assignments