

Education

University of Nevada, Las Vegas

Graduation 2022

- Computer science major | Mathematics minor | GPA: 4.0
- Engineering Sophomore of the Year

Work Experience

CubeSat Software and GNC Lead

Sep 2020 - Present

- Leading a team of ten students in the development of control software for a CubeSat with an optical interferometry payload
- Implementing BDot detumbling algorithm and mission-critical pointing with reaction wheels
- Helped start team and secure \$36,000 in funding

United Launch Alliance

May 2020 - Aug 2020

Fluids Software Intern

- Expanded valve telemetry in piping and instrumentation software
- Updated control logic for Vulcan rocket tanking phases and purging regulators
- Built launch support script for integrated fluids team
- Supported fluids team in Mars 2020 Wet Dress Rehearsal and Launch

SEDS (Students for the Exploration and Development of Space)

Sep 2018 - Present

Payload and Avionics Programmer

- Built autonomous and redundant payload deployment and rocket recovery systems
- Programmed payload to automatically inflate upon impact with the ground
- Assisted in the creation of flight-critical circuits, including nichrome wire release mechanism
- Lead development of reaction wheel, implemented on supersonic competition rocket
- Designed and developed [club website](#)

Intellimind

Apr 2019 - May 2020

Software Developer Intern

- Built a native Privileged Access Management program
- Developed a crawler tool which collects data from unique sites and reports findings in real-time
- Built PDF and I.D. recognition platform
- Utilized Amazon Web Services to support development and deployment of applications

Personal Projects

Rocket reaction wheel

- Created sub-scale test platform to simulate induced torque on rocket
- Categorized system to provide airframe team with maximum roll tolerance
- Built and programmed control logic on mission-specific hardware

Telemetry visualizer

- Developed visual interfaces for desired sensor readings
- Tested with logged data and upgrading system to work with real-time telemetry

Goodnight Light

- Created matching lights with buttons for my girlfriend and I to say goodnight to each other while separated over the summer
- Built API that hardware could communicate through and deployed it on a web server
- Designed PCB to implement finalized circuit

Skills

- C / C++ / Python
- Embedded programming
- Electronics
- Model rocketry
- Applied math
- Bilingual in Russian

Check out my projects! victortaksheyev.github.io/portfolio/