

Education

University of Nevada, Las Vegas

Graduation 2022

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

Work Experience

Software Engineer Intern

May 2021 - Aug 2021

Relativity Space

- Developed initial anomaly detection system for Stargate and DMLS prints
- 6DoF calibration of Stargate printer to < 10 thou precision

CubeSat GNC Lead

Sep 2020 - Present

RebelSat-1

- Leading a team of ten students in the development of control software for a CubeSat
- Implementing B-Dot detumbling algorithm and finite state machine for orbital operations

Software Engineer Intern

May 2020 - Aug 2020

United Launch Alliance

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

Programmer

Sep 2018 - Present

SEDS (Students for the Exploration and Development of Space)

- Built redundant payload deployment and rocket recovery systems
- 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](#)

Software Engineer Intern

Apr 2019 - May 2020

Intellimind

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

Personal Projects

Text and Image Compressor

- Implemented the Huffman encoding algorithm on text and images
- Achieved a 46% text compression rate on text and 56% image compression rate
- Inspired by phone constantly running out of storage

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

Telemetry visualizer

- Developed visual interfaces for data collected from sensors
- Created a real-time communication link between Arduino and Python using serial communication
- Tested with logged data and upgrading system to work with real-time telemetry

Skills

- C / C++ / Python/JS/HTML/CSS/Git
- Embedded Programming
- Model rocketry
- AWS
- Applied math
- Bilingual in Russian

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