Victor Taksheyev

victortaksheyev.github.io/portfolio/
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Work Experience

Flight Software Engineer
Relativity Space
June 2022 - Present

- Flight software engineering for Terran 1 and Terran R launch vehicles

Software Engineer Intern
Relativity Space
May 2021 - Aug 2021

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

Software Engineer Intern
United Launch Alliance
May 2020 - Aug 2020

- 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

Software Engineer Intern
Intellimind
Apr 2019 - May 2020

- 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

Guided Landing Drogue for Rocket Recovery
- Designed custom PCB hardware controller and battery management system
- Programmed autonomous control system for steering a rocket back to its launch site
- Won grand prize for senior design engineering competition

Robotic Sparring Partner
- Created a robot that tracked a sparring partner and punched back
- Designed CAD, 3D printed, analyzed electrical system, and built robot platform
- Programmed computer vision tracking algorithm and servo punching logic

Rocket Reaction Wheel
- Designed hardware and implemented algorithm to reduce a rocket's roll in flight
- Validated hardware on a rocket that flew to 40,000ft

Education

University of Nevada, Las Vegas
B.S. Computer Science
Mathematics minor

- Summa Cum Laude | GPA: 4.0
- Engineering Sophomore of the Year

Skills

- Rust/C++/Python/Git	- Applied Math	- Control Systems
- AWS/Grafana	- Model Rocketry	- Bilingual in Russian

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