

DAN GIRSHOVICH

dangirsh.org

EDUCATION

Cornell University

B.S. Engineering Physics - GPA: 3.7

August 2010 - May 2014

Ithaca, NY

- **Selected Coursework:** Mathematical Physics · Computational Physics · AI · Evolutionary Computation

WORK EXPERIENCE

Tools for Humanity GmbH

Software Engineering Manager

January 2021 - present

Berlin, Germany

- Leading a team of 11 software engineers to bring [The Orb](#) to life.

The Julia Lab @ MIT

Research Software Engineer (Contract)

June 2020 - Dec 2020

Cambridge, MA

- Collaborating with [ACED](#) in applying Julia's [SciML](#) tools to electrochemical optimization problems.

Rigetti Computing

Software Engineer

January 2017 - November 2019

Berkeley, CA

- Built internal modeling and simulation tools for the design of superconducting quantum processors (QPUs)
- Worked with experimental physicists to automate the calibration and measurement of prototype QPUs
- Built backend infrastructure for [Rigetti's Quantum Cloud Services](#) and internal services

Zee.Aero (now Wisk.Aero)

Avionics Software Engineer

July 2014 - November 2016

Mountain View, CA

- Collaborated on several prototypes of a manned electric aircraft
- Designed and automated hardware-in-the-loop test infrastructure for the avionics suite
- Built various internal tools, including one for flashing new flight binaries on a fully integrated aircraft.

Space Exploration Technologies Corp. (SpaceX)

Avionics Test Software Intern

June 2013 - August 2013

Hawthorne, CA

- Automated hardware acceptance testing by building a custom GUI and domain-specific language

PROJECTS

Cornell's [Violet Satellite Project](#) (UNP-6)

Program Manager (September 2012 - December 2013)

September 2010 - May 2014

Ithaca, NY

- Led a team of 60 Cornell students in building a technology demo nanosat for the Air Force Research Lab
- Ran technical reviews of flight software, radio, power, ground operations, harness, and mechanical subsystems

Selected Open Source Projects

- [Computational Physics Reports](#) · [Personal Computing Environment](#) · [NASA cFE Message Sequencer](#)

DIGITAL TOOLBOX

Rust · Julia · Python · Haskell · C/C++ · Common Lisp · Emacs/Elisp · GNU/Linux · Nix/NixOS