

# DAN GIRSHOVICH

[dangirsh.org](http://dangirsh.org)

## EDUCATION

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### Cornell University

*B.S. Engineering Physics - GPA: 3.7*

August 2010 - May 2014

*Ithaca, NY*

- **Selected Coursework:** Mathematical Physics · Computational Physics · AI · Electronic Circuits

## WORK EXPERIENCE

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### Tools for Humanity GmbH

*Senior Engineering Manager*

January 2021 - present

*Munich, Germany*

Leading the [Orb Software](#) team.

### The Julia Lab @ MIT

*Research Software Engineer (Contract)*

June 2020 - Dec 2020

*Cambridge, MA*

- Collaborated 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

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### 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

- [Orb Software](#) · [Computational Physics Reports](#) · [Personal Computing Environment](#)

## DIGITAL TOOLBOX

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