DANIEL GIRSHOVICH

dan.girsh@gmail.com ◇ dangirsh.org

EDUCATION

Cornell University — August 2010 - May 2014
B.S. Engineering Physics — *Ithaca, NY*

WORK EXPERIENCE

Earth Computing — May 2020 - present
Consultant — *Palo Alto, CA*

Quantum Biology Startup — June 2019 - March 2020
Cofounder — *Santa Barbara, CA*

· Researched technological applications of novel quantum effects in biological systems.

Rigetti Computing — January 2017 - November 2019
Computational Modeling and Simulation — *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 cloud deployment infrastructure for Rigetti's Quantum Cloud Services and internal services

KittyHawk / Zee.Aero — July 2014 - November 2016
Avionics Software Engineer — *Mountain View, CA*

· Iterated on avionics software for several prototype manned electric aircraft
· Helped build an automate hardware-in-the-loop tests for the full avionics suite
· Built internal tools for tracking flight binaries, interfacing with embedded bootloaders, and mapping test results to low-level requirements

Space Exploration Technologies Corp. (SpaceX) — June 2013 - August 2013
Avionics Test Software Intern — *Hawthorne, CA*

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

KPCB Engineering Fellow @ Crittercism Inc. — June 2012 - August 2012
Backend Software Intern — *San Francisco, CA*

PROJECTS

Violet Satellite Project (UNP-6) — September 2010 - May 2014
Program Manager (September 2012 - December 2013) — *Ithaca, NY*

· Led a team of 60 Cornell students in building a technology demo nanosat for the Air Force Research Lab

Personal

· Personal Computing Environment: Effective, minimal, reproducible, functional, and lispy.
· Auto: A Haskell tool for defining and spoofing test message sequences in NASA's cFE
· Computational Physics: C++ implementations and writeups of computational physics problems
· Genetic Programming: A Haskell library for experimenting with generic genetic programming

DIGITAL TOOLBOX

Emacs/Elisp · Julia · Haskell · C · Common Lisp · Python
GNU/Linux · Nix · NixOS · Git · Jupyter · Docker · Singularity · Terraform