

COLLIN CAPPELLE

ccappelle.github.io

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San Francisco, California 94103

WORK EXPERIENCE

Astranis Space Technologies

Senior Software Engineer

San Francisco, California

November 2021 - present

- Owned the hardware testing framework design and implementation.
- Integrated emulated and real hardware components for hardware in the loop testing.
- Designed and implemented custom simulation infrastructure.
- Built internal production tools aiding satellite production.
- Wrote flight software services for Arcturus mission.

Navisens

Research Engineer

San Francisco, California

October 2019 - November 2021

- Implemented SLAM for pedestrian location on mobile platforms.
- Created visualization tools for playback and estimation analysis.

Morphology, Evolution & Cognition Laboratory

Research Assistant

Burlington Vermont

September 2015 - May 2019

- Worked under Dr. Josh Bongard exploring the artificial evolution of modularity in the morphology and neural controllers of simulated robots.
- Created and maintained *pyrosim*, a python simulator for evolving robots. *Pyrosim* was used by the lab to conduct research and by students in Dr. Bongard's Evolutionary Robotics courses.

EDUCATION

Ph.D. in Computer Science

The University of Vermont

September 2015 - May 2019

Focus on Evolutionary Robotics. Thesis: *Exploring the Modularity and Structure of Robots Evolved in Multiple Environments*

Graduate Certificate in Complex Systems

The University of Vermont

September 2015 - May 2017

B.S. in Computer Science

The University of Vermont

September 2011 - May 2015

B.S. in Mathematics

The University of Vermont

September 2011 - May 2015

SKILLS

C++, python, OpenGL