

# COLLIN CAPPELLE

ccappelle.github.io

908-797-1891

San Francisco, California 94103

## WORK EXPERIENCE

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### **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

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### **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

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C++, python, OpenGL