

# Ari Porad

+1 (206) 940-4866

aporad@olin.edu

<https://github.com/ariporad>

<https://portfolio.ariporad.com>

Experienced software engineering student with 13 years of programming experience, looking for a fast-paced, active, mechatronics-focused internship

**SKILLS** C++ Python Robotics MATLAB ROS Git JavaScript Machine Learning Unit Testing Computer Vision

## EDUCATION

### Olin College of Engineering — May 2024

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING— 3.96 GPA

- Minor in Political Science, with an emphasis on achieving change within real-world, imperfect political systems
- Elected sophomore student government representative

## COMMERCIAL APPS

### Castbridge — Retired

- Castbridge connects incompatible home audio ecosystems; enables AirPlay streaming from Mac & iOS to Chromecasts
- Independently designed, developed, released, and marketed
- Hundreds of paying users in dozens of countries
- Paid MacOS app written in Javascript and Electron

### Relevant Coursework:

- Computational Robotics (Independent Study)  
*Final Project: Built a visual odometry system from scratch*
- Fundamentals of Artificial Intelligence at Brandeis University
- Principles of Integrated Engineering  
*Final Project: Built an autonomous single-player chess set*

## INTERNSHIPS & WORK EXPERIENCE

### Skydio — Summer 2022

AUTONOMY PRODUCTS ENGINEERING INTERN (3D SCAN)

- Skydio builds best-in-class autonomous drones for inspection, situational awareness, and cinematography
- Skydio 3D Scan autonomously captures millimeter-scale models of structures like bridges, buildings, and cell towers
- Optimized inspection and path planning algorithms for performance and enhanced user experience
- Additional project currently under NDA

### Onshape (a PTC company) — Summer 2021

ARCHITECTURE/FEATURESCRIPT SOFTWARE ENGINEERING INTERN

- Onshape is a leading cloud-first computer aided design (CAD) platform for mechanical engineers
- Implemented optimizations to the FeatureScript programming language, which enables users to extend Onshape and automate tedious design workflows
- Improved FeatureScript performance by up to 50x
- Developed custom FeatureScript for customer

### Microsoft — Summer 2018 & 2019

PLATFORM SOFTWARE ENGINEERING INTERN — SUMMER 2019

- Designed and built core parts of an unreleased next-generation Microsoft app platform in TypeScript and React
- Platform powered hundreds of thousands of active users

WEB APPLICATION TESTING INTERN — SUMMER 2018

- Developed UI and unit-testing infrastructure for a web app
- Tests written using Selenium in .NET, C#, and JavaScript
- Collaborated to integrate with existing app & infrastructure

### Healthy School Buildings — 2018 - 2019

FREELANCE REACT NATIVE JAVASCRIPT DEVELOPER

- Contributed to a React Native Android app to allow teachers to report unsafe or unhygienic conditions in public schools
- Worked with teammates to ensure backwards compatibility

### Pro.com — Summer 2017

MOBILE APPLICATION DEVELOPMENT INTERN

- Built geolocation features in a Swift-based iOS app
- Features improved the accuracy of customer billing

## TEAMS

### FIRST Robotics Competition — 2016 - 2020

TEAM CAPTAIN, PROGRAMMING LEAD

- Developed control algorithms to correct for mechanical variances and to assist drivers
- Emphasis on team leadership, management, conflict resolution, planning, and prioritization
- Attended State & World Championships
- FIRST Dean's List Semifinalist (individual award)

### Olin RoboLab — Jan 2021 - May 2022

COMPUTER VISION RESEARCH PROJECT LEAD

- Researched use of structured light for autonomous underwater vehicle navigation and obstacle avoidance
- Expanded from an independent project to leading a team of several students
- Worked on a robotic fish project for low-power, low-light autonomous shallow water inspection and reconnaissance