

oscarbezi

web developer and roboticist

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<http://github.com/bezi>

<http://bezi.io>

education

Carnegie Mellon University

BS in Computer Science, Robotics. Graduation: May 2017.

Pittsburgh, PA

languages

extensive

Javascript

CSS, HTML

Bash

C

proficient

LaTeX

Matlab

tech experience

HEBI Robotics, Inc.

2015-now. Pittsburgh, PA

Software Engineering Intern, web services and firmware.

- Created platform to manage and deploy robot firmware (React/Node.js).
- Implemented decryption utilities in robot firmware (C).

Microsoft Corporation

2015. Redmond, WA

Software Engineering Intern, Audio Quality

- Implemented generic Audio ETW event classification framework (C#).
- Voted best intern project, OSG SiGMA

ScottyLabs

2013-now. CMU (Student Org)

Director of Operations

- Operations: run and maintain ScottyLabs' servers and APIs.
- Tech: lead dev for TartanHacks ('15, '16), Print@ScottyLabs, APIs@ScottyLabs
- Leadership: lead three separate teams of students for the projects.

Biorobotics Laboratory

2013-now. Carnegie Mellon University

Embedded Systems, System Administrator. Working under Dr. Howie Choset

- Administrative work: managing new members and overseeing the JumpingBot group.
- Firmware development: rewrote firmware architecture to improve modularity, applied to all of the robotic platforms in the lab (C++).

technologies

extensive

Node.js

React

Redux

Linux

proficient

Nginx

Gulp

hackathons

Battle of the Hacks

MHacks IV

HackPrinceton

HackCMU

talks

CClub Talk Series

Docker and Fig 101

CoffeeScript 101

Node.js 101

CrashCourse 2015

Intro to HTML & CSS

Advanced Vim Usage

WebDevWeeks 2015

Deploying Your Site

teaching experience

(16-384) Robot Kinematics and Dynamics

Fall 2016

- Wrote extensive background materials for student use.
- Designed and tested several hardware labs to provide hands-on experience.
- Held office hours and grading sessions.

(16-311) Introduction to Robotics

Spring 2015

- Updated homeworks with additional background materials and a standard presentation.
- Designed and ran a computer vision lab, with rapid feedback from autograding.
- Held office hours, ran weekly labs, and grading sessions.

select projects

APIs@ScottyLabs

2015. ScottyLabs (CMU)

- Designed and developed several APIs for CMU community data access.
- Released dining, directory, and course data for student use (Node.js, Google AppScript).
- Deployed the services and maintained uptime for long-term use.

TartanHacks Infrastructure

2014-2016. ScottyLabs (CMU)

- Built hacker registration, notifications, and resume aggregation (React, ES6).
- Deployed and managed operations with Nginx.

SEASnake

2014. CMU Biorobotics Lab

- Rewrote existing firmware architecture to use a modular driver system (C++).
- Applied the architecture to all of the robotics platforms in the lab.
- Implemented virtual x86 module for unit-testing firmware.

JumpingBot

2014-2015. CMU Biorobotics Lab

- Project manager: leading group of 5 engineering students.
- Developing firmware, prototyping with Arduino and 3D printed parts (C).