oscar**bezi**
web developer and roboticist

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languages

extensive
Javascript
C
CSS, HTML
Bash

proficient
Java
LaTeX
Matlab
C++

technologies

extensive
Node.js
React
Redux
Linux

proficient
Nginx
Gulp

talks given

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

hackathons

TartanHacks III*,IV*,V*
Battle of the Hacks '15
MHacks IV
HackPrinceton '13, '14
HackCMU '13, '14*, '15*

*mentor

education

Carnegie Mellon University   Pittsburgh, PA
BS in Computer Science, Minor in Robotics. Graduation: May 2017

tech experience

HEBI Robotics, Inc.   2015-now. Pittsburgh, PA
Software Engineering Intern, web services and firmware.
- Created web 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
- Built tool to better understand Windows audio state for debugging (C#)
- Voted best intern project, OSG SiGMA

ScottyLabs   2013-now. CMU (Student Org)
Director of Operations
- Operations: operated ScottyLabs' services which open data for the CMU community
- Tech: project lead for TartanHacks ('15, '16), Print@ScottyLabs, APIs@ScottyLabs
- Leadership: led 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, which allowed four separate hardware platforms to use the same firmware (C++)

teaching assistant experience

Robot Kinematics and Dynamics (16-384)   Fall 2016
- Wrote extensive background materials for student use
- Designed and tested six robotic arm manipulation labs to provide hands-on experience
- Held office hours and grading sessions

Introduction to Robotics (16-311)   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

Rapid Prototyping Technologies (15-294)   Fall 2016
- Assisted students during class with Solidworks, 3D printers, and laser cutters

select engineering 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