oscarbezi

web developer, roboticist

contact

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github.com/bezi
bezi.io

languages, natural

english (native)
spanish (native)
french

languages, programming

♥ Javascript
♥ CSS3, HTML5
♥ C++
♥ C
Python
LaTeX
Bash

miscellaneous

Node.js
Django
Gulp
Sass
CoffeeScript

hackathons

MHacks IV
HackPrinceton
HackCMU

education

2013–present **Bachelor of Science**, Computer Science — Carnegie Mellon University, Pittsburgh, PA
Minor in Robotics. Expected graduation in May 2017.

select projects, web development

2014 **gitorial** — http://gitorial.com

- Generates tutorial blogs directly from Github repos
- Developed Django backend
- Implemented application logic with CoffeeScript and Handlebars
- Placed top 10 at MHacks IV

2014 **TeXDown** — http://texdown.org

- LaTeX/Markdown editing platform for taking notes in class
- Developed Node.js RESTful API on the back-end
- Implemented the application logic on the front-end with JavaScript.

2013 **CMUEats!** — http://cmueats.com

- Simple mobile-friendly application to list when CMU's restaurants are open
- First wrote in Django, then ported to Node.js

select projects, robotics

2014–present **SEASnake** — CMU Biorobotics Lab

- Rewrote existing firmware architecture to use a modular driver system
- Applied the architecture to all of the robotics platforms in the lab
- Implemented virtual x86 module to allow for testing software without robot with the gtest C++ library

2014–present **JumpingBot** — CMU Biorobotics Lab
Used Solidworks, 3D printing, and laser cutting to develop and assemble a prototype of a self stabilising robotic platform with the Arduino Due.

2014 **Google Lunar XPrize** — CMU Planetary Robotics Lab
Developed firmware and onboard electrical systems for the "Andy" lunar rover.

work experience

2013–present **Biorobotics Laboratory** — Carnegie Mellon University
Worked for Dr. Howie Choset as a embedded firmware developer and system administrator.

- Rewrote the lab's C++ SEASnake firmware system, allowing us to run the same high level controls on all of the lab's projects
- Developed lab utilities in Python
- Prototyped hardware and software for new robotic platform, JumpingBot

2013 **FIRST/EXCEL Summer Programs** — Governor's School (SCGSSM)
Taught middle schoolers the fundamentals of programming through Minecraft.

2011-2013 **Information Technology Department** — Governor's School (SCGSSM)
Installed and ran Fedora Linux lab with an Arch Linux NFS for advanced CS course.

interests

professional: firmware development, multi-robot planning, web application design and implementation

personal: rowing, cooking, hackathons, science fiction

student organisations: CMU Varsity Rowing Crew (board member), ScottyLabs