

# Brogan Miner

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## EDUCATION

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### Oregon State University

Bachelors in Electrical Computer Engineering

GPA: 3.4

Corvallis, OR

June 2020

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## PROJECTS (github.com/broha22)

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### iOS System Extensions

Fall 2014-Fall 2017

*Mobile Development/Reverse Engineering*

- Reverse engineered the main processes on iOS to understand how they worked to then manipulate them.
- Examples of projects can be found on github:

**Anchor** - (github.com/broha22/anchor)

Simple iOS extension that allows users to place icons on the home screen without limitation. Overall a successful project with close to 26,000 users.

### Digital Logic Engineering Group Project

Spring 2017

*System Verilog*

- Worked with a group of five to create a SNES interpreter for different remotes and controllers
- Interpreted signals sent over from an IR receiver and transcribed them into something interpretable by a SNES console. A N64 controller was also used.
- Full simulation of the System Verilog code was done using ModelSim
- The full report can be found here: broganminer.com/ece271pro.pdf

### Web Design and Development

Current

*HTML/CSS/JavaScript/Node*

- Designed, maintained and created Broganminer.com, featuring more of my experience and personal interests. This project relies on extensive use of jQuery and external DOM file loading.
- Worked with two other students from OSU on a brewery directory website. The site is a social networking platform based on Node and uses handlebars. The project is in early stages but I am currently working on front end and back end development.

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## TECHNICAL SKILLS

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- **Language/Framework:** C/C++, Python, HTML/CSS, JavaScript, MySQL, git, Objective-C, System Verilog, Node.js, LaTeX, Express, Vue.js
- **Classes:** Digital Logic Design, Data Structures, Electrical Fundamentals

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## EXPERIENCE

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### OSU Sustainability Office

*Student Software Systems Engineer*

May 2018 - Current

- Designed web applications for viewing building energy data
- Full stack web development
- Test driven development
- Maintained and expanded existing code base of various web applications

### Graton's Custom Landscapes

*Landscape Specialist*

Summer 2016 & 2017

- Aided in the installation and repair of irrigation systems
- Designed and created the company's website
- Water feature construction and repair
- Constructed efficient macro biomes for proper waste management