

# GREGORY FLEMING

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[LinkedIn](#)

[Github](#)

[Portfolio](#)

Huntington Beach, CA

## SKILLS

Python, SQLite3, Flask, HTML, CSS, Solidworks 2020, C++, jQuery, Arduino, VBA, Ladder Logic, Matlab, Linode

## PROJECTS

### YouJitsu.net

[Live Site](#) | [Github](#)

*Community driven website to store BJJ knowledge | (Python, SQLite3, Flask, CSS, jQuery, Linode)*

- Designed website to include database search, secure login system, timed user email verification, automated database update, dynamic CSS, user generated content pages, and user ranking
- Generated secure hashed passwords using werkzeug.security
- Optimized load times by implementing infinite scroll feature with AJAX/JS

### LightBug

[Github](#)

*Mahanty Fund winning robot that chases light source | (Arduino)*

- Wrote Arduino PLC code that interprets data from light sensor array to control step motors
- Crafted mountable H bridge circuit and mobile light sensor array
- Designed and fabricated freely moving robot chassis with mounts for circuit, power source, and motors

### BendPro

*Novel machine designed to form steel tubing into greenhouse tunnel arches | (Omron PLC, Ladder Logic, Structured Text)*

- Created the structure and implementation of PLC + HMI code to safely automate machine
- Assisted senior engineering staff in mechanical design, production, and assembly of final production machine
- Generated all 3D CAD models and drawings using Solidworks CAD software

## EXPERIENCE

### Engineer I

*AG Tunnels, May 2015 - Present*

- Designed greenhouse tunnels + equipment using Solidworks CAD Software
- Created component drawings + specifications for international production use
- Streamlined sales process, improving accuracy and response time of quotes
- Performed ongoing troubleshooting/maintenance of tube bending machinery

### Engineer intern

*Frontier Technologies, Jul 2014 - Jan 2015*

- Assisted senior engineering staff in preliminary design of custom machinery
- Translated customer drawings into in house production drawings using shop standards
- Designed custom shop tooling and fixtures to improve machine line productivity

### Packaging Engineer Intern

*Paramount Farms Jan 2014 - Jun 2014*

- Applied 5S methodology to improve output of promotional packaging line
- Tracked and analyzed data to reduce packaging material waste

## EDUCATION

**Harvard CS50ai Through EdX** - Online Education (Currently Enrolled)

**Harvard CS50x Through EdX** - Online Education (Winter 2019)

**California State University, Fresno** - BS - Mechanical Engineering (Spring 2015)