

# Evan Widloski

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evan@evanw.org

evanw.org/projects

github.com/evidlo

## Education

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**Purdue University** - GPA 3.62

2013-2017

Senior, BSEE Electrical Engineering, BSEE Mathematics

## Technical Skills

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### Engineering

Systems level design, transmission lines, mechatronics  
AVR and 8051 microcontrollers,  
Electrical & Mechanical CAD (Eagle, Kicad, Solidworks)

### Programming and Linux

Python, C, Bash, Octave, LaTeX, 5+ years  
Systems administration, 5+ years

## Experience

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**Purdue Orbital Team**

2015-present

Designed node based communication and sensor system based on AVR for high altitude balloon

**Purdue IEEE ROV Team** - Electrical Lead

2013-2015

Managed team of about a dozen electrical engineers and oversaw project completion

Designed a compact, addressable motor controller for use in a submersible vehicle

Designed powerline communications with 2 NTSC video feeds and 400kbps data stream

Designed custom sensors board which controls the submersible's peripherals

**Purdue Linux Users Group** - President

Gave classes on topics such as Python, regular expressions, Unix init systems, filesystems

2013-present

## Work

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**Texas Instruments** - Field Applications Engineer

2016

Implemented multitap filter on 8051 microcontroller, Compensated stability on boost converters

**Qualcomm** - CoreBSP Security Team

Created SDK in C to emulate phone hardware for use during development of secure applications

2015

**Massey Electric Company and Millwright**

Drafted complete model of solar shelter in Solidworks. Verified UL compliance of solar hardware

2013

## Classwork

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**ECE438** - Signal Processing and Systems

**MA453** - Abstract Algebra

**ECE311** - Electromagnetic Interactions

**MA409** - Complex Analysis

**ECE307** - Transmission lines

**ECE30010** - Machine learning and pattern recognition

## Selected Projects

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1 KW high voltage tether for autonomous surveillance drone - [evanw.org/projects/drone](http://evanw.org/projects/drone)

600V H-bridge for radiation chamber - [evanw.org/projects/nuke](http://evanw.org/projects/nuke)