Evan Widloski

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Education

Purdue University - GPA 3.62 2013-2017

Senior, BSEE Electrical Engineering, BSEE Mathematics

Technical Skills

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

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

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

ECE438 - Signal Processing and Systems

ECE311 - Electromagnetic Interactions

ECE307 - Transmission lines

MA453 - Abstract Algebra

MA409 - Complex Analysis

ECE30010 - Machine learning and pattern recognition

Selected Projects

1 KW high voltage tether for autonomous surveillance drone - **evanw.org/projects/drone**

600V H-bridge for radiation chamber - **evanw.org/projects/nuke**