Christopher Puglia

Electrical and Computer Engineering Student

Profile

I appreciate the intricate ties between hardware and software and love combining the two into amazing systems. I enjoy making, inventing, and pushing the boundaries of my knowledge, with the desire to create products to make everyday life easier.

Contact Me

Please ask, not posted online

puglia.c@husky.neu.edu

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Technical Skills

Altium Designer, SPICE, SolidWorks, AutoCAD, MATLAB, Microsoft Office

Python, C/C++, Java, HTML, Version Control, Linux, GIT

Soldering (Including SMT), PCB Troubleshooting, BOM Management, Welding

More Info

linkedin.com/in/cpuglia

chrispuglia.com

EDUCATION

NORTHEASTERN UNIVERSITY **2013-Dec. 2017**

Bachelor of Science in Electrical and Computer Engineering **GPA 3.87**

Honors: Tau Beta Pi, Eta Kappa Nu, University Honors Program, Dean's List
Relevant Courses: Electronics I-II, Digital Design, Electromagnetics, Linear Systems, Software Security, Engineering Algorithms, Noise & Stoch. Processes
Activities: Mentor for Entering Honors Students, IEEE Student Chapter, Catholic Center Service Committee Chair

WORK EXPERIENCE

WHOOP **Jan 2017 – July 2017**

Electrical and Firmware Engineering Co-op

Contributed to the electrical/firmware design, manufacture and test of a fitness wearable for elite athletes.

- Designed and built functional prototypes of a new sleep sensing product
- Created test fixtures and developed testing applications to verify system quality
- Extensive electrical debug, bring-up, rework and EDA design

CYPHY WORKS **Jan 2016 – Aug 2016**

Electrical and Computer Engineering Co-op

Worked developing a micro UAV (drone) system for a government contract. Made significant contributions to both electrical and software design.

- Designed and tuned LiPO battery management system, with gas gauging, cell balancing, and safety shutdowns.
- Developed and tested power system, which allowed the drone to fly for hours over a microfilament tether.

DIGITAL LUMENS **Dec 2014 – Jul 2015**

Electrical Engineering Co-op

Developed a Surge Module to protect high efficiency LED lights from surge events. Directed project through design, prototyping, and UL/CE regulatory testing.

- Extensively used ECAD software to create and modify various PCB's.
- Ran thermal, ESD and efficiency testing on suite of lighting products.
- Automated many tests through use of Python scripting.

IBM, SMARTCLOUD NOTES **Jun 2014 - Aug 2014**

Software Development Intern

Designed and tested a program to scan e-mail attachments in-flight for viruses. Solution increased efficiency and provided significant cost savings compared to previous virus scanning program.

INTERESTS AND PROJECTS

Christmas Light Animation

Designed, built, and programmed a homemade Christmas light show, which features thousands of lights synchronized to music. More information at ChristmasInTownsend.com

Maker Portfolio

Raspberry Pi, motorized bicycles, drones, course registration tracker and various software projects. Details at ChrisPuglia.com

Eagle Scout (Boy Scouts of America)