

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



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Please ask, not posted online



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

WHOOOP

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 38AWG 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)