



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. I am currently studying at Northeastern University.



Contact Me



978-480-0211



puglia.c@husky.neu.edu



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

2013-2017

Bachelor of Science in Computer and Electrical Engineering

GPA 3.87

Honors: Tau Beta Pi member, Eta Kappa Nu, University Honors Program, Dean's List

Relevant Courses: Electronics I-II, Digital Design, Electromagnetics, Linear Systems, Networks, Software Security, Engineering Algorithms, Database Design, Calculus I-III, Differential Equations

Activities: Mentor for Entering Honors Students, IEEE Student Chapter, Catholic Center Service Committee Chair



ST. JOHN'S HIGH SCHOOL

2009-2013



WORK EXPERIENCE



CYPHY WORKS

Jan 2016 – Aug 2016

Electrical and Computer Engineering Co-op

Worked as an integral member of small team of engineers developing a micro UAV system for a government contract. Saw project through delivery and 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 the 38AWG microfilament tether.
- Implemented GStreamer solution for streaming low-latency video from drone to OCU tablet.



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 a number of tests through use of Python scripting which greatly reduced test time and increased accuracy.



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)