

# Michael Anthony DeLeo

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## EDUCATION

**The Pennsylvania State University – Erie, PA**  
Bachelor of Science in *Computer Engineering*  
Minor in *Computer Science*, Minor in *Mathematics*

**May 2019**  
**3.13**

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## WORK EXPERIENCE

**Undergraduate Researcher** | Penn State **May 2018 – August 2018**  
- Designed Matlab Script to replace legacy software in collection of Acoustic Signals from Microphone Array  
- Software performs complex signal analysis to save work for the user.

**Freelance Software Developer** | Gateway Health **June 2016**  
- Developed software and interactive GUI in C# to enable doctor to fill out datasheets faster

**Intern** | Lemos Labs **May 2015 – August 2015**  
- Designed software in VBA to increase workflow in office with filling out reports.

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## TECHNICAL EXPERIENCE & ACCOMPLISHMENTS

**Electrical Field Sensing Device** | *Personal Project* **October 2018 - Present**  
- Designing device to collect the Earth's electrical field in the stratosphere.

**PLC Simulator** | *Capstone Project - C, Python* **October 2018 - Present**  
- Created a system that works together to quickly simulate a process, and provide a visualization of process.  
- Will replace current hardware for PLC labs at Penn State, as it is cheaper, more adaptable and easier to use.

**Sinusoid Comparator** | *Hackathon Project - Python* **December 2018**  
- Script listens with microphone, and compares sound input to hard coded sinusoid to find if it is a match

**Image To Haiku Generator** | *Hackathon Project - Python* **October 2018**  
- 1<sup>st</sup> Place in best use of Accuweather API at HackPSU.  
- Generates a unique poem from a given image, utilizing NLP, image processing, and the current weather.

**FIR on PIC32** | *Personal Project - C* **April 2018**  
- Implemented a 64 tap FIR filter on an MCU. Displays input and output on Oscilloscope

**Battleship Game** | *Personal Project - Assembly* **November 2017 – December 2017**  
- Independent project where I developed an AI to play a person in Battleship.

**Portfolio Website**, *Personal Project – HTML and JQuery* **November 2018**  
- Developed multithreaded web server on raspberry pi. Hosts portfolio website written in HTML and JQuery

**Processor Simulation** | *Personal Project – C++* **March 2018**  
- Wrote program to simulate four processors in parallel, and then provides output of simulation  
- Developed an undergraduate research paper based on my simulation and findings.

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## TECHNICAL SKILLS

Proficient Languages: C/C#/C++, Java

Technologies: git, Linux, AWS, xcode,

Intermediate Languages: Assembly, Python, JavaScript, HTML

Visual Studios

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## EXTRACURRICULAR ACTIVITIES

**Vice President : Men's Club Lacrosse Team** | Penn State Behrend **August 2016 – May 2018**  
**Eagle Scout** | BSA Troop 404 **September 2014**

- For Eagle Project, built a campsite and hiking path at local Family Resource Center
- Led group of 30. Delegated roles, and assigned groups. Held Leadership Positions for 18 months prior.

**Webmaster** | BSA Troop 404 **September 2013 – September 2014**  
- Developed Troop's First Website. Designed workflow, email system. Directory for Troop Members.

- Allowed announcements of events, and event signup. Sign-in Enabled.

**Den Chief** | BSA Troop 404 **September 2013 – September 2014**  
- Recruited ~30 new scouts before leaving troop. Reached out to cub packs.

- Reversed the trend of declining troop size. Troop had 10 scouts before I recruited. 40 When I left.

**Volunteer at PRC Nursing Home** **June 2010 – August 2015**

- For 6 years I volunteered at Passavant Retirement Community. 10 Hours per week each summer.
- Spent time caring for residents, talking to them, and helping them with activities.