Michael Anthony DeLeo

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EDUCATION

The Pennsylvania State University – Erie, PA   **May 2019**
Bachelor of Science in *Computer Engineering*   *GPA 3.13*
Minor in *Computer Science*, Minor in *Mathematics*

WORK EXPERIENCE

Undergraduate Researcher | Pennsylvania State University   **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.

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

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.

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.

TECHNICAL AWARDS

Image To Haiku Generator, 1st Place at Hackathon| *Hackathon Project - Python*   **October 2018**
- 1st 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.

TECHNICAL SKILLS

Proficient Languages**: C/C#/C++, Java**   Technologies: **git, Linux, AWS, xcode,**
Intermediate Languages: **Assembly, Python, JavaScript, HTML**   **Visual Studios**

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.