Owen Q. Brooks

linkedin.com/in/owen-brooks-11531b12b/

EDUCATION

Drexel University

Philadelphia, PA

Bachelor of Science in Computer Engineering; GPA: 3.4

Expected Graduation 2020

Email: oqb23@drexel.edu

Mobile: 240-472-8246

• Relevant Coursework: Adv. Programming Techniques, Business Statistics, Design with Microcontrollers, Digital Logic Design, Electric Circuits, Discrete Math, Calculus I, II, Multivariate, Linear Algebra, Differential Equations, Physics I, II, Networking

EXPERIENCE

G3 Technologies

Mt. Airy, MD

May 2017 - Sept 2017

Software Engineering Co-op

- **Embedded Development**: Eliminated the need for microcrontrollers in product development by creating signal-processing algorithms. Implemented and tested created algorithms using FTDI cables.
- Test Software: Increased radio production by troubleshooting and fixing bugs found in hardware test applications. Coordinated with hardware technicians and lead software engineer to document bugs found in patches.
- RF Tuning And Production: Exceeded monthly quotas for radio component production. Utilized a variety of mechanical and software tools to test and tune complex receivers, tuners, and their various modules.
- **Employee Training**: Decreased amount of time required to train new employees by creating detailed procedural reports.

Drexel NanoPhotonics Lab

Philadelphia, PA

Lab Assistant

Sept 2017 - Present

- Optics Research: Collaborate with researchers in the creation and testing of optical imaging filters. Utilize Class 3 lasers to ensure functionality of H-PDLC samples. Effectively collect and present research data.
- Organization: Increase lab efficiency by cataloging test, optomechanical, and laser equipment. Manage the purchase, shipping, and handling of research equipment.

Loyola University Physics Lab

Baltimore, MD

Lab Assistant

Aug 2015 - May 2016

- Moon Phase Research: Organized and digitally presented research on moon phases. Increased data accuracy by removing bad data from sets of high-resolution moon photographs.
- Schedule Management: Decreased time conflicts between researchers and professors by creating a department time schedule, used to reserve lab space.

DESIGN PROJECTS

- Lego NZXT Robot: Robotics project that uses Lego hardware and search algorithms to compete in object retrieval challenges. Collaborated in a team of four to incorporate color, light, and motion sensors. Received second place in 2016 Drexel Design Lab Challenge.
- Interview Practice App: Android App that allows users to practice interview questions and record their answers.
- Python Blackjack: Program that implements the game of blackjack in Python. Makes use of object inheritance and simple AI. Features easy to use UI and support for multiple players.

EXTRACURRICULAR ACTIVITES

- Drexel Men's Wrestling: Team member and starter on nationally ranked Division I wrestling team. (2016 Present)
- Beat The Streets Philadelphia: Peer mentor, tutor and coach for Philadelphia youth. Striving to teach principles of academic and athletic discipline, through the sport of wrestling. (2017 Present)
- Student-Athlete Advisory Committee: Committee member for a student-athlete organization that plans fundraisers and other charity events. (2017 Present)

SELECT SKILLS

- Languages: Python, C, MATLAB, R, Java, C++, Bash, VHDL, LaTeX, HTML, CSS
- Software: Linux/Unix, Mac OS, Git, Multisim, LabVIEW, ModelSim, Autodesk Inventor, Microsoft Office
- Test Equipment: Signal Generator, Network Analyzer, Spectrum Analyzer, Oscilloscope