PATRICK SKWIOT

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TECHNICAL SKILLS
Languages: C++, VBA, HTML, CSS
Software: Microsoft Office, Solidworks, Maple, PSPICE, MATLAB, Visio, Power World Simulator, App Inventor
Operating Systems: Windows, Apple OSX, Linux Ubuntu

EDUCATION
Manhattan College, Riverdale, NY   Expected May 2021
Bachelor of Science in Electrical Engineering; **3.63 GPA**
Honors & Awards: Dean's List, Epsilon Sigma Pi Honor Society, Tau Beta Pi Honor Society - New York Xi Chapter, Eta Kappa Nu Honor Society - Gamma Alpha Chapter, Eagle Scout - Boy Scouts of America
Relevant Coursework: Digital Systems I & II, Signals & Systems I & II, Computer Science II, Electronics I & II, Power Electronics, Instrumentation Systems, Control Systems, Capstone Senior Design Project

WORK HISTORY
Manhattan College ITS, Riverdale, NY   February 2018-Present
Client Service Technician
- Provides customer technical support services and guidance to resolve computer and software issues
- Develops and maintains an equipment repair inventory system for critical technical assets
- Identifies key IT system problems, issues trouble tickets, and provides timely support to resolve them

Hartford Steam Boiler, Hartford, CT   May-August 2020
IoT Engineering Intern
- Conducted research on various new sensor types and designs with use cases and functionality in mind
- Designed and built C++ program to assist IoT contractors with efficient LoRa gateway placement on campuses
- Estimated proper gateway and sensor counts and locations for various campuses
- Analyzed possible risks of sensor designs using fault tree analysis
- Assisted team members with setup of testing environments and placement of sensors on location

Otis Elevator, Bloomfield, CT   June-August 2019
Warehouse Intern
- Surveyed and documented dimensions, weight, and demand of elevator parts for relocation to maximize efficiency
- Participated in transformation project to relocate and rearrange shelves to streamline part picking process
- Collaborated with a team of employees to properly locate, document, and send parts to their set destination

NOTABLE PROJECTS
7x24 Exchange University Challenge   August 2020-Present
- Serve as member of a multidisciplinary team of mechanical and electrical engineers tasked with designing a cooling system for a data center's electrical components.
- Build, program, and test a water pump voltage controller using a PWM based DC-DC converter.
- Utilize Bluetooth LE for a user to input a desired temperature via an iOS application, which was compared to a probed temperature.

Capstone Senior Design   August 2020-Present
- Design a smart-home system tailored for individuals with hearing and visual impairments.
- Develop series of modular systems of sensors to place around a home that connect to a server and an iOS application featuring both haptic and audio feedback to alert the user of various hazards.
- Utilize computer vision algorithms to build an object and edge detection system for a camera module.
- Develop, prototype, and build a voltage regulation system to protect circuitry from damaging voltage levels.

EXTRA-CURRICULAR ACTIVITIES
Photographer for Lotus Magazine | DJ and Program Director at WRCM Radio Station | Member of Institute of Electrical and Electronics Engineers (IEEE) | Member of SEARCH-IT at Manhattan College