Michael G. Gargasz

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EDUCATION

Bachelor of Science in Electrical and Computer Engineering (Computer Engineering) **Expected August 2020**

- The Ohio State University | Columbus, Ohio | 3.74 GPA
- **Minor**: German
- **Relevant Coursework**: Software Design Principles, Discrete Mathematics and Structures, Statistics, Computer Architecture, Linux Programming, Digital Design, Embedded Programming, Parallel Computing, Circuit Design and Analysis, Signals and Systems Analysis, Technical Communication, Ethics

EXPERIENCE

Startup Co-Founder
NXTSTOR LLC, Columbus, OH **Oct 2016—Present**

- Oversaw the development of a web application for the business in partnership with a Columbus-based development firm.
- Designed and built company web application.
- Met with business advisors and potential investors to discuss business strategies and ways to move the business forward.
- Designed the company logo and branding.
- Met with potential clients on the supply and demand sides of the market.
- Facilitated a trial run of the service during the summer of 2017 to collect market research and feedback from customers.
- Redesigning a new version of the website using more efficient technologies.

Engineering Intern – Chemical Plant Engineering Group
The Lincoln Electric Company, Euclid, OH **May 2018—Aug 2018**

- Designed, implemented, programmed, and tested a new piece of machinery to assist production.
- Implemented and programmed new sensors on factory equipment to improve safety in the event of mechanical failure.
- Updated electrical schematics according to updates deployed on the factory floor.
- Became NFPA 79 certified to comply with new safety regulations (valid 2018-2021).
- Designed and implemented quality-of-life updates for factory workers and maintenance staff.
- Redesigned outdated safety equipment to comply with new standards.
- Programmed PLCs to control processes within the factory equipment.
- Reprogrammed HMI views to reflect new functionality added to machines.
- Troubleshot and repaired issues with PLC or HMI programs.
- Purchased components to implement into new factory equipment.

Engineering Intern – Power Electronics Group
The Lincoln Electric Company, Euclid, OH **May 2017—Aug 2017**

- Reverse engineered high-efficiency power supplies and modeled the circuit topology of the power delivery systems.
- Calculated power loss estimations within high efficiency power supply circuitry.
- Tested the stability of power circuity using a frequency response analyzer.
- Designed and fabricated circuitry that was installed into testing apparatus within the factory.
- Assisted an engineer with supply chain issues on the production floor.
- Assisted with initial testing of next-generation products.
- Conducted experiments to assess improvements on existing designs.
- Wrote and presented reports to engineers and management staff.
- Set up and attended meetings between engineers and management staff from different departments.
- Learned about the advantages of Kaizen, Kanban, and Six Sigma manufacturing processes.

SKILLS & PROFICENCIES

Proficient: HTML, CSS, C/C++, Java, Adobe Photoshop, Adobe Lightroom, Microsoft Office Suite, Sketch
Basic: Python, MATLAB, Assembly, AutoCAD Electrical, Adobe Illustrator, Adobe Premiere Pro
Learning: JavaScript/TypeScript(Angular), Sass, VHDL, Apache Hadoop

SCHOLARSHIPS & HONORS

- Member of IEEE/Eta Kappa Nu **March 2019 - Present**
- Officer of Tau Beta Pi – Ohio Gamma Chapter **March 2018 - Present**
- Ohio State University College of Engineering Dean's List **Jan 2016 - Present**
- Ohio State Business Builder's Club IdeaPitch – 2nd Place **Nov 2016**
- Ohio State University Honors College **Aug 2016 - Present**
- Cleveland Engineering Society Scholarship Recipient **May 2016**