

Michael G. Gargasz

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EDUCATION

B.S. Electrical and Computer Engineering

May 2020

- The Ohio State University | Columbus, Ohio | 3.81 GPA
- **Coursework:** Software Design, Computer Hardware Architecture, Linux Programming, Embedded Programming, Parallel/High Efficiency Computing, Analog Circuit Design, Signals & Systems Analysis, Machine Learning, Technical Communication, Ethics, German Language & Culture

EXPERIENCE

Startup Co-Founder | NXTSTOR, Inc. | Columbus, OH

Oct 2016—Jan 2020

- Designed and built company web application.
- Interacted with business advisors and potential investors to discuss business and marketing strategies.
- 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.
- Designed and developed native applications for iOS and Android.

Software Engineering Intern | CAS | Columbus, OH

May 2019—Aug 2019

- Developed software to analyze product usage data with a proprietary database structure.
- Constructed several continuous deployment pipelines for product updates.
- Created data visualizations through a Jupyter web application.
- Collected and explored raw data to create standardized, structured content.
- Decomposed epic-level assignments into stories without the assistance of a product owner.
- Utilized Agile process philosophy to divide and assign daily tasks.

Undergraduate Teaching Assistant | OSU CSE Department | Columbus, OH

May 2019—July 2019

- Facilitated weekly office hours to assist students with assignments and course questions.
- Graded student homework and project submissions without the use of a key.
- Diagnosed and resolved issues with student assignments over email.

Chemical Plant Engineering Intern | 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 in accordance with updates deployed on the factory floor.
- Became NFPA 79 certified to comply with new safety regulations (valid 2018-2021).
- Redesigned outdated safety equipment to comply with new standards.
- Programmed PLCs to control processes within the factory equipment.

Power Electronics Research Intern | 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.
- Assessed the stability of power circuitry using a frequency response analyzer.
- Designed and fabricated circuitry that was installed into testing apparatus within the factory.
- Utilized Kaizen, Kanban, and 6 σ process philosophies to divide and assign daily tasks.

SKILLS & INTERESTS

Programming Languages: HTML, CSS, Python, JavaScript, C/C++, Java, Scala, MATLAB, Assembly, VHDL, LaTeX

Software: JetBrains IDEs, Jenkins, Jupyter, Docker, Adobe Photoshop/Lightroom, Sketch, Xilinx ISE, Arduino

Non-Engineering Skills: German Language B2 Proficiency, Decently Good Cook

Interests: Home Automation/IoT, Urban Photography, College Football Hot Takes, Fountain Pen Evangelism

HONORS & EXTRACURRICULARS

- Officer of IEEE-Eta Kappa Nu
- Officer of Tau Beta Pi – Ohio Gamma Chapter
- Ronald and Petta Khouw CAS Technology Intern Award
- Ohio State University First Year Design Project *Most Innovative Design*
- Ohio State University College of Engineering Dean's List

March 2019—May 2020

March 2018—May 2020

Aug 2019

April 2017

Jan 2016—May 2020