**LUCAS A. SWARTZ**

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**EDUCATION**

**B.S. in Engineering**  Expected Graduation:

*The Ohio State University (*Columbus, OH) May 2028

Major: Electrical & Computer Engineering GPA: 3.596 / 4.000

Minor: Robotics and autonomous systems

**WORK EXPERIENCE**

**Software Engineering CO-OP** May 2025 – August 2025

R.W. Beckett North Ridgeville, OH

* Developed embedded C software for the Genisys controller, an advanced burner control system, using GitLab for collaboration and version control.
* Optimized startup for a Raspberry Pi unit by implementing SDM scripts and automating installation and launch processes to enhance usability.
* Conducted thorough product testing using oscilloscopes and diagnostic tools, while taking the lead in writing detailed test reports to outline the procedures and results.

**Shift Lead** May 2022 – January 2025

*Chick-Fil-A Strongsville, OH*

* Supervised daily operations and coordinated a team of 30 staff members to maximize efficiency and productivity.
* Directed process improvements, such as kitchen reorganization and schedule optimizations to increase speed of service.

**PROJECTS**

**Robot Design Project**  February 2025 – April 2025

*Fundamental of engineering honors course* *The Ohio State University, OH*

* Led C programing of an autonomous robot using the OSU Proteus, collaborating with a four-person team to complete a multi-task course within two minutes.
* Met weekly milestones, contributing to a final technical report and project website documenting design and development.
* Presented in a competitive showcase, finishing in the top 16 of 64 teams, based on design, functionality, and overall performance.

**Software Design Project**  November 2024

*Fundamental of engineering honors course* *The Ohio State University, OH*

* Developed a fully functional game in C++ using the OSU Proteus library.
* Worked in a three-person team to plan, design, and deliver the game with a one-month timeline, overcoming technical challenges and weekly meeting deadlines.

**LEADERSHIP EXPERIENCE**

**Member**  January 2025 – Current

*Theta Tau Professional Fraternity Ohio State University, OH*

* Active member of the nation’s largest professional engineering fraternity focused on building professional development, and brotherhood in the engineering community.

**SKILLS**

* **Technical skills**: Embedded C, Java, Git, Onshape
* **Soft skills**: Time management, Training