William Comer

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EDUCATION

The Ohio State University, Columbus, Ohio

B.S. Computer Science Engineering, GPA 3.942, May 2025

Specialization: Computation and Information Assurance, Minor: Economics

QUALIFICATIONS

Languages: Java, C, C++, X86-64 Assembly, HTML

Skills: Problem Solving, Linux, GDB Debugger, MATLAB, Robotics, SolidWorks, Excel

Familiar With: Python, Docker, Kubernetes, Bash Scripting, High Performance Computing

- Extensive experience analyzing problems and developing **rapid solutions**, demonstrated through Eagle Scout Leadership Experience.
- Proven mastery of **object-oriented programming**, design by contract, and the development and use of software components, demonstrated through responsibility to teach students.
- Strong understanding of **computer architecture** and **assembly languages**, acquired through coursework in Systems 1: Introduction to Low-Level Programming and Computer Organization.
- Proficient in **data structures and algorithms**, with a solid foundation developed through Foundations 2: Data Structures and Algorithms.
- Knowledge of **software development life cycle** and design principles, acquired through Software 2: Software Development and Design.
- Understanding of **vector and matrix algebra** and its application in engineering and physics, developed through Linear Algebra.
- Knowledge of **statistical methods** and their application in engineering, acquired through Introduction to Statistics for Engineers

PROJECT WORK

Eagle Scout Project:

- Responsible for the construction of a lacrosse practice wall for Lakota West High School valued at $50,000.
- Conceived and executed a plan to secure funding and resources to complete the project at no cost to the school, displaying strong initiative, networking, and resourcefulness.
- Overcame funding disruption due to COVID-19 to successfully complete the project for the school, highlighting my problem-solving and strategic thinking skills.

Honors Robot Design and Build Project:

- Responsible for collaborating with a team to design and build a versatile robot capable of navigation, decision-making, and consistency in an 8-week time frame.
- Spearheaded the development and implementation of a comprehensive schedule, division of labor, and budget while simultaneously responsible for implementing navigation and task completion algorithms.
- Delivered completed robot on time and underbudget successfully completing the project.
- 134 Hours, Project Management: 13, Programming: 84, Documentation: 9: Construction: 16, Other: 12

LEADERSHIP AND ACTIVITIES

Eagle Scout
- Proven exceptional leadership abilities as a Senior Patrol Leader, overseeing troop leadership meetings, regular body meetings, and high adventure trips.
- Taught and mentored youth leaders as a National Youth Leadership Training Troop Guide.

Great Miami Rowing Club, 2021 – Present
- Utilize efficient teamwork and communication to ensure an optimal boat.
- Proactively seek out and integrate feedback from team members and coaches, resulting in an improvement in skill and ability to self-analyze and correct mistakes.

Dance Sport Club the Ohio State University, 2022 – Present
- Active development of verbal and nonverbal communication skills.
- Rapid iteration and development of many dances and techniques to improve before competitions.
- Adapt and seamlessly transfer skills and techniques between partnerships and dance styles to excel in competition.

Matthew 25 Ministries
- Dedicating time and effort to support community through cheerful volunteer services, including sorting medical supplies, clothing, and providing other aid.

WORK EXPERIENCE

The Ohio State University, Teacher's Assistant: Introduction to Software Design, August 2022 - Present
- Responsible for enabling students' learning and comprehension of basic software design principles, object-oriented programing, design by contract, basic data structures.
- Guided students' learning in lab and facilitated additional understanding using office hours and constructive feedback on projects and assignments.
- Ability to mentor and support students resulted in being asked to return as a teacher's assistant.

Cooper's Hawk, Front of House Host, May 2022 – August 2022
- Responsible for managing severs and guests in a fast paced and collaborative work environment to ensure guest satisfaction.
- Leveraged strong teamwork and communication skills to effectively coordinate front-of-house operations.
- Successfully created an enjoyable and efficient guest experience with high guest satisfaction.

LSI Industries, Shipping and Receiving Team Member, May 2021 – August 2021
- Required to operate quickly and accurately in a fast-paced and demanding factory environment.
- Practiced LEAN manufacturing and gained knowledge of manufacturing processes.
- Expanded knowledge and understanding of manufacturing and logistics principles through hands-on experience, resulting in a broader perspective on industry best practices and the optimization of processes.