

# William Acquaviva

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## Education

### Georgia Institute of Technology (Georgia Tech)

Atlanta, GA

Candidate for Bachelor of Science in Mechanical Engineering with a minor in Computer Science

Expected May 2027

3.8 GPA

## Academic Projects

### Multiplayer 2D Tank Combat Game

December 2022-Present

A personal project to create an effective online multiplayer functionality utilizing JavaScript and front-end development using CSS and HTML. Developed a web-based 2D tank shooter game featuring integrated multiplayer capability. Implementing algorithms for tanks to autonomously target and shoot bullets directly at players, incorporating evasion tactics to navigate through incoming projectiles.

### Senior Capstone Design Engineer

January 2024-Present

The project goal is to create an electro-mechanical smart organizer in which a user can place an item on a pad scanner that can identify the item by type and size, and then the toolbox will organize itself using a robotic-like mechanism. In addition to participating in the overall process from requirement setting to final fabrication and test, my main role on the team is to design the mechanism utilizing CAD modeling.

### Light up chess board

January 2023-April 2023

A personal project Integrating traditional woodworking with modern LED technology, I employed detailed dovetail joints for both structural integrity and aesthetic appeal. The chess grid features a refined pattern achieved through Tempered Ceramic glass with 1mm grooves, showcasing meticulous attention to detail and elevated design standards.

## Skills

### Programming:

HTML (beginner) , CSS (beginner) , Javascript (beginner), Arduino IDE(beginner) , C++(beginner), MATLAB(intermediate)

### Technical:

AutoCad(proficient), Fusion 360, (proficient), SolidWorks(proficient)

### Machinery:

OMAX Waterjet(proficient), CNC(proficient), 3D print(proficient), welding(proficient), bed lathe(proficient),

### Language:

English (native speaker), Spanish(beginner)

## Experiences

### Afghan Refugee Liaison:

June 2021 - August 2023

Collaborated with Afghan high school refugees at my church, offering guidance, familiarity, and support. Led a group of seven high school students to classes and facilitated understanding of cultural and religious differences through personal translation. Engaged in this role following the U.S. withdrawal from Afghanistan in 2021 in order to help Afghan families who helped the U.S. Government during the war.

### Dockhand and Mechanic at Freedom Boat Club:

May 2021 - Present

Execute comprehensive boat maintenance, including cleaning, fueling, and general upkeep such as lower engine swaps and oil changes. Demonstrate a strong work ethic with consistent dedication, working 40-hour weeks during the summer. Showcase exceptional customer service skills in all interactions and basic mechanical understanding of engines, specifically 6 cylinder 4 stroke engines.

### High School Varsity Captain - 5 seasons:

November 2021 - June 2023

Honored to serve as captain during five seasons in varsity soccer and track. Contributed to four state championships and helped generate three All-State Sportsmanship Awards during the five seasons.

### Soccer Coaching:

June 2023 - Present

Provide personalized tutoring for soccer players aged 10-16, fostering skill development during the summer months.