

Kayla Copeland

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Education

Agnes Scott College - *Mathematics/Physics Major*

Decatur, GA

Expected May 2025

Woodward Academy - *High School Diploma*

College Park, GA

August 2019 - May 2021

Interdisciplinary Leadership Course, Agnes Scott College,

Decatur, GA

LDR 101 Women in STEM

August - December 2021

- Researched the function behind self driving vehicles.
- Researched and created a short analysis on Mcdonald's ice cream machine and the ethical dilemma of Kytch's machinery.
- Collaborated with team of five to form a debate in the defense of self-driving vehicles. Contributing the morality of self driving vehicles to the group's success.

Global Journeys, Agnes Scott College

Caye Caulker, Belize

GBL 102 MesoAmerican Culture

January- March 2022

- Researched the British colonization of British Honduras (Belize) and its effect on globalization.
 - Traveled to Belize and worked on a Mangrove service project.
 - Viewed and engaged with the coral reefs and sea life in Belize.
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Skills

- Experience in using digital software such as Canva, Microsoft paint, Adobe Premiere Pro.
- Proficient in Microsoft Word.
- Experience in soldering and basic circuit design
- Beginners experience in Blender, Free CAD, and Adobe Photoshop.
- Experience in website design using Squarespace.

- Has experience in using Unity software for game design
 - Experience in coding with Python (beginner's experience in C#)
 - Works well in group and individual settings.
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Experience

Christian Sports Center - *Assistant Taekwondo Instructor*

Stone Mountain, Ga

June 2021 - PRESENT

- Teaching children, teens, and young adults the basics of Taekwondo.
- Works hands on with tailoring instruction for each individual's needs.
- Assisting the head instructor during class and models how to deliver a technique.

Lynn Co. Traffic Control LLC, - *Administrative Assistant*

Atlanta, Ga

August 2022 - June 2023

- Designed website and logos for traffic control business.
 - Responsible for making sure employees received Georgia certification for traffic services.
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Project portfolio

- Doctor who Sonic Screwdriver:
 - A model that uses an IR led, rfid chip and tiny EMP generator that models the ability to unlock doors, mess with electronics and act as a universal remote.
 - Created a mini stun gun for the DC and attached capacitors and a pvc with copper wire on top for the mini EMP.
 - Designed using basic Paint 3D for visual planning.
 - Drew out schematics for electronic parts and measured out components.
 - Planning on adding IC's and arduino to code a universal remote.
 - Result: still modifying project so the EMP does not affect the IR sensor nor interferes with the rfid chip.
- Light up harry potter wand:
 - A simple led circuit attached to a crafted wooden wand (painted).
 - Result: Produces a bright light when pressing the button

- Card game design:
 - Used Canva to design some custom cards as an add-on for a personal party pack.
 - Designed an informational guide for personal party packs.
 - Model of a ice blaster:
 - Used compressed air inside of a modified lighter to show an “ice” effect.
 - Created an exterior casing using PVC, a Nerf gun handle and an old toy.
 - In the process of redesigning a bigger chamber for a solenoid valve.
 - Result: the compressed air looks like a blast of ice when pointed at a slight angle. Still working on final design.
 - Practice in Unity:
 - Learning how to use C# to learn game mechanics.
 - Designed rooms in Blender to interact with in Unity.
 - Results: still using tutorials online for coding. Was able to add an inventory and player interaction using an online tutorial.
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