# Amiri Hayes

Aspiring Software Engineer
Newark, NJ

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## OBJECTIVE:

I am a high school student pursuing Associates Degrees in **Physics & Computer Science** at Rowan College of South Jersey. My ultimate goal is to learn to problem solve in many different contexts and capacities. I love challenges and connecting with people. Three of my hobbies are math, skateboarding, and cycling. My website is linked above for additional information.

## EDUCATION:

**2021 - 2023** **Rowan College of South Jersey - Gloucester (High School Opportunity Student)** Gloucester, NJ

GPA: 3.95    Earned Credits: 91    RCSJ President's List    PTK Honor Society

- Majors: **Physics & Computer Science**
- Involvements: RCSJ Math Club, RCSJ Black Student Union, RCSJ Literary Magazine

Relevant Courses:
- Calculus I-III, Linear Algebra, Statistics, Data Structures & Algorithms, Discrete Math
- General Chemistry II, Physics II (Electricity & Magnetism), Physics III (Light & Optics)

Honors & Awards:
- MIT Undergraduate Research Technology Conference Publication
- New Jersey Undergraduate Mathematics Competition: Honorable Mention

## EXPERIENCE:

**Since 2022** **NJIT CENTER FOR APPLIED MATH & STATISTICS** Newark, NJ
RESEARCH ASSISTANT
- Assist Chair of NJIT Math Department on ocean acoustics research using Machine Learning
- Engineer features & visualize data in MATLAB to characterize the seabed by classifying sediments
- Edit decision trees and educate myself on Classification & Linear Regression techniques
- Read relevant papers on acoustic field data and ocean characterization weekly

**Summer 2022** **NJ GOVERNOR'S SCHOOL OF ENGINEERING & TECHNOLOGY** New Brunswick, NJ
STUDENT RESEARCHER
- Completed a four-week research project at Rutgers proving the efficiency of morphing airfoils
- Employed MATLAB to calculate fuel efficiency and lift/drag values for theoretical morphing aircraft
- Worked in a team to simulate airfoils using COMSOL and ANSYS + build an airfoil prototype
- Accepted to MIT and Rutgers symposiums to present our research and demonstrate prototype

**2020 - 2022** **KUMON MATH AND READING CENTER** Maywood, NJ
ASSISTANT INSTRUCTOR
- Taught math and language arts from kindergarten to Grade 12 level
- Set up online Zooms for students unable to come to the center in-person
- Helped over 50 kids achieve their potential and improve in school over two years

## SKILLS:

**Languages**: JavaScript, MATLAB, C++, Python, Java, Latex, HTML & CSS
**Technologies:** Adobe Illustrator, Excel, Word, Blender, Onshape, Overleaf
**Personal:** Communication, Empathy, Teamwork, Conflict Resolution, Problem-Solving