Sidney Nimako

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EXPERIENCE

BIOMOTIVATE | VR Development Intern
May 2020 - August 2020 | Pittsburgh, PA (Remote)
- Established an interface system for Oculus Go controller and headset
- Built a data collection solution to aid research on therapeutic benefits of different experiences
- Designed the product road map based on research from behavioral psychologists
- Took the VR experience from problem to MVP in 3 Months

ASHLEY'S MUSIC FOUNDATION | Volunteer App Developer
May 2018 - Aug 2018 | Naperville, IL
- Independently developed a cross=platform app to provide elementary music education

GHANA YOUTH RESEARCH INITIATIVE | Volunteer Curriculum Writer
May 2018 - Aug 2018
- Produced resources and activities on math and science for use in the program's curriculum

FERMILAB | TARGET Intern
June 2017 - Aug 2017 | Batavia, IL
- Wrote and deployed 3 WordPress pages for Fermilab's global services domain.
- Devised an SQL schema for storage of data on laboratory visitors, improving the lab's ability to monitor who was on premises.
- Began development of a Python application to interface training and security databases to improve laboratory security.

PROJECTS

SNIBO.ME | Independent
Ongoing
- Personal portfolio website built from scratch
- Contains additional experiments in design, software and mechanics

UNDERGLOW CIRCUIT | Carnegie Mellon Racing
Ongoing
- Designed a lighting control board to interface with the CMU Formula SAE race car.
- Created Altium schematics for the board using CMR standardized templates.

LINE FOLLOWING ROBOT | Fundamentals of Mechanical Engineering
November 2019
- Constructed and programmed an Arduino based robot capable of autonomously following a line.
- Completed the track in the fastest recorded time completing the approximately 6 ft track in 7.08s

EDUCATION

CARNEGIE MELLON UNIVERSITY
BS in Mechanical Engineering with an Intended double major in Robotics
August 2019 - May 2023
Cum. GPA 3.3/4.0

COURSEWORK

Concepts of Mathematics

Fundamentals of Computer Programming

Fundamentals of Mechanical Engineering

Imperative Programming

Intro. to Electrical Engineering

Intro. to Scientific Computing

Statics

Thermodynamics

Writing about Data

SKILLS

TECHNICAL SKILLS
Python · Java · JavaScript · C++ C · Dart · Flutter · Latex · Solidworks Figma · Unity · Matlab

SOFT SKILLS
Creativity · Problem Solving Communication · Teamwork

LANGUAGES
French

ACTIVITIES & HONORS

Carnegie Mellon Racing
2019 - Ongoing

Carnegie Mellon Rocket Command
2019 - Ongoing

Dormitory Council
2019-2020

The Tartan Newspaper
2020 - Ongoing

Outstanding Citizenship Award (2019) *from The National Society of the Sons of The American Revolution*

Illinois State Scholar (2019) *from The State of Illinois*