

**Website:** <https://AniebietJacob.github.io> | **Github:** <https://github.com/aniebietjacob/> | **Linkedin:** <https://www.linkedin.com/in/aniebietjacob/> |

## Work Experience

**3D-UMBC, Executive Director, Head Engineer** | May 2017 - Present

**Project:** *Computer Architecture of a 3D Printer using E-Waste Utilized: CADD, C, C++*  
<http://retrieverweekly.umbc.edu/proveit-winners-announced/?platform=hootsuite>

3D-UMBC aims to expose students and faculty on UMBC's campus to both 3D printing technology, and the importance of recycling e-waste (technological and electronic waste). This project will create 3D printers using recycled computer hardware. for UMBC student and faculty use! In edition, we will hold a school-wide event in which students and faculty will be able to learn more about 3D printing technology and e-waste projects.

**Image Research Center, Photogrammetry Programmer** | September 2017 - Present

**Utilized:** C, Git, Github, Linux/Unix

Maintain Photogrammetry system which is an array of one hundred DSLR cameras in a circular arrangement that take photos of a subject simultaneously. Maintain and develop existing photogrammetry management software. Support researchers in using the photogrammetry system. Performs routine hardware maintenance.

**CMSC 104, Teaching Assistant** | September 2017 - Present

**Utilized:** C, Git, Github, Linux/Unix

Teach weekly classes to CMSC 104 students on C programming and Unix/Linux environment. Create videos on elementary coding techniques and tricks for the class to follow.

**Multi-Agent Planning and Learning Lab, Assistant Researcher** | September 2017 - November 2017

**Project:** *Abstract Markov Decision Processes in Robot Learning Utilized: Java, Git*

Under Dr. desJardin, will be studying the importance of decision making within an artificially intelligent system. This project will also mainly focus on Markov Decision Processes and how these would integrate into the decision making process for artificially intelligent systems

**High Performance Computing Lab, Summer Research Assistant** | June 2017 - August 2017

**Project:** *Parallelization of Prompt Gamma Radiation Imaging System*

**Utilized:** C/C++, MatLab, R/RStudio, OpenMP, MPI Programming, Maya, Linux, Latex  
<https://userpages.umbc.edu/~gobbert/papers/REU2017Team6.pdf>

Implemented an MPI algorithm in our code that parallelized our fast image reconstruction system. Our algorithm was written in a combination of C++ and C and utilized MatLab for imaging purposes, and was fully parallelized using MPI on the HPCF cluster maya.

## Personal Projects

**E-Waste Electric Skateboard** | June 2017 - Present

**Utilized:** CADD, C

[AniebietJacob.github.io](https://AniebietJacob.github.io) | June 2017 - Present

**Utilized:** HTML5, CSS3

**Exploding Kittens Game** | March 2017

**Utilized:** C++, OOP

**Artificially Intelligent Navigator** | February 2017

**Utilized:** C++

**Maze Solver Algorithm** | December 2016

**Utilized:** CADD, C

**Connect 4 Game** | October 2016

**Utilized:** Python

## Skills

**PROGRAMMING:** C++ | C | Python | MatLab | R | Javascript | HTML5 | CSS3

**TOOLS/Framework:** Git/Github | Microsoft Office | Linux | LaTeX | RStudio | Maya | MPI Programming | OpenMP

## Coursework

- Object Oriented Design/Programming
- Discrete Structures
- Data Structures
- Assembly Languages

## Awards & Honors

- National Security Agency Scholarship Program
- Meyerhoff Scholarship Program
- UMBC ProveIt! \$10,000 Grant Grand Prize Winner
- Center for Women In Technology Affiliates Program
- Cyber Scholars Affiliate Program

## Conferences

- CWIT Grace Hopper Conference 2017 Sponsorship
- iAAMCS National Conference of Blacks in Computing 2017 Sponsorship
- AMIA 2017 Symposium Sponsorship

## Extracurriculars

- HackUMBC
- Women's Rugby

\*All projects can be found on my website

\*\*Software projects can be found on my github account

\*All projects can be found on my website

\*\*Software projects can be found on my github account

\