

# Albert Kobina Gumbs

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## Education:

University of Maryland, Baltimore County (UMBC) — *Expected Grad. Date: December 2023*

Mechanical Engineering B.S. — *Current GPA: 3.1*

## Technical Skills:

Computer: MATLAB, SOLIDWORKS, Arduino, Python, Ruby, HTML/CSS, Excel

Creative: Video/Audio Editing, Photography

Language: Spanish (Professional Working Proficiency)

## Professional Experience

Quality Assurance Engineer Intern — **Brightspot**

May - August 2022 & 2023

- Performed front-end testing for Johnson & Johnson website upgrade.
- Performed front-end and back-end testing for AP News website replatform.
- Used project management software JIRA in order to track and communicate advanced project statistics on various projects, including Amazon, Johnson & Johnson, and Nvidia.
- Wrote automated scripts for front-end testing, using JS framework Cypress.

Residential Assistant — **UMBC**

August 2021 - May 2023

- Focused on enhancing quality of life for UMBC residential students by encouraging community building and providing support to younger students.

Undergraduate Research — **University of Kentucky, Grady Lab**

May - August 2021

- NSF Research Experience for Undergraduates Program, Engineered Bioactive Interfaces and Devices. One of 17 students selected from an applicant pool of 200 students.
- Worked on a NASA funded research project to determine differences in *Staphylococcus aureus* bacterial biofilm formation in microgravity simulated conditions, which are present in the International Space Station.

## Projects

[UMBC Engineering Capstone Project](#) — UMBC ENME 444 (Mech. Systems Design)

January - May 2023

- Worked in a group of 4 to create a Ball Beam Balance system which used an infrared sensor and servo motor to balance a ball along a 12 inch metal beam.
- Used SOLIDWORKS and Ultimaker Cura to model and 3D print various parts for assembly of the system.
- Programmed PID control system for the servo motor using infrared sensor input and an Arduino.

**CAD Design Project** — UMBC ENME 204 (Engineering Design with CAD)

January - May 2021

- Worked in a group to design a toy for young students with cerebral palsy, using SOLIDWORKS.

**Walmart Autocheckout Software** — Personal Project

January 2021

- Wrote a script to monitor Walmart's online product database and complete a purchase of requested items in 3-5 seconds after the item becomes available using Selenium and HTTP request modules.