

Albert Gumbs

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Hanover, MD

Education:

University of Maryland, Baltimore County (UMBC)

B.S. Mechanical Engineering

Expected Grad.: December 2023

GPA: 3.1/4.0

Recognition:

- *UMBC Honors College Award* 2019 - 2023
 - *National Science Foundation Research Experience for Undergraduates Grant Recipient* 2021
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Technical Skills:

Programming: Python, MATLAB, Ruby, HTML/CSS

Software: SOLIDWORKS, Jira, GitHub, Docker

Language: Spanish (Working Proficiency)

Other: Leadership, Research, Teamwork

Professional Experience:

Quality Assurance Engineer Intern — Brightspot May - August 2022 & 2023

- Programmed and deployed automated testing scripts to validate updates to large code repositories, using JavaScript framework Cypress.
- Performed front and back end testing for Amazon and Johnson & Johnson website migration to new host for improved user experience.
- Utilized project management software JIRA to track and communicate advanced project statistics to engineers on various projects, including Amazon and Nvidia.

Residential Assistant — UMBC

August 2021 - May 2023

- Focused on enhancing quality of life for UMBC residential students by encouraging and facilitating community building, through events and mentorship.
- Led frequent floor meetings to communicate educational resources, safety policies, and extracurricular events to students in my hall.

Undergraduate Researcher — University of Kentucky, Grady Lab

May - August 2021

- Worked on a NASA funded research project to cultivate bacterial biofilms in simulated microgravity conditions and used microscopy to investigate differences between these and a control group.
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Projects:

UMBC Engineering Capstone Project — ENME 444 (Mech. Systems Design) January - May 2021

- Worked in a group of 4 to design a Ball Beam Balance system as a visual aid for teaching university level controls courses.
- Modeled components for the system using SOLIDWORKS and 3D printed several parts using Ultimaker Cura.
- Was personally responsible for programming and calibrating the PID control system for the servo motor using infrared sensor input and an Arduino.

Walmart Autocheckout Software — Personal Project

January 2021

- Created and iterated on a program to monitor Walmart's online product database and complete a purchase of in-demand items in 3-5 seconds after the item becomes available, using Selenium and HTTP request modules.