

Albert Gumbs

(240)938-6118 • albertgumbs38@gmail.com • globalgumbs.com
Hanover, MD

Education:

University of Maryland, Baltimore County (UMBC)

B.S. Mechanical Engineering

December 2023

3.12/4.0 GPA

Recognition:

- *UMBC Honors College Award*
- *National Science Foundation Research Experience for Undergraduates Grant Recipient*

2019 - 2023

2021

Technical Skills:

Programming: Python, MATLAB, Java, JavaScript

Software: SOLIDWORKS, Jira, GitHub, Docker, AWS

Other: Leadership, Research, Teamwork

Professional Experience:

Systems Engineer — Systems Planning & Analysis

February 2024 - Present

- Provided engineering support for the Navy Program Executive Office, Integrated Warfare Systems 2.0 Above Water Sensors and Lasers Directorate, focusing on the AN/SAY-3 "I-Stalker" electro-optic / infrared sensor system.
 - Support software and hardware design, testing, and integration
- Developed software tools using Python and VBA to streamline Navy processes

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 investigate differences between these and a control group.

Projects:

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

January - May 2023

- Worked in a group of 4 to design a Ball Beam Balance system as a visual aid for teaching university level controls courses.
- Modeled system components using SOLIDWORKS and 3D printed parts using Ultimaker Cura.
- Programmed and calibrated PID control system using infrared sensor input and an Arduino microcontroller.