

Pearl Uva

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Education

Colonel Richardson High School, Federalsburg, MD - High School Diploma

September 2018 - May 2022

- Valedictorian of Colonel Richardson Class of 2022 (rank 1 of 118)
- Certified completion of the "Project Lead the Way" pre-engineering high school program. A high achiever in all courses, designed to engage students to use STEM in order to apply them to real world situations

University of Maryland, College Park, MD - Sophomore Undergraduate

August 2022 - Present

- Pursuing a degree in Aerospace Engineering

Work Experience

Seaberry Farm (Federalsburg, MD) — Floral Event Set Up Crew Leader

June 2018 - Present

- Lead small teams of people on site to set up floral displays for events (weddings, funerals, parties, etc.)
- In charge of overseeing loading/unloading, large display assembly, and resource management.

Seaberry Farm (Federalsburg, MD) — Event Floral Design Leader

June 2018 - Present

- Design floral arrangements and personal flowers for large events (weddings, funerals, parties, etc.) as well as assist others in the handling of such arrangements.
- Assemble large floral event structures on site (chuppahs, arches, furniture, etc.)

Projects

Hypersonic Propulsion Research Project — team based research with UMD's HAPL

August 2022 - December 2022

- Placed 6 out of 35 research groups presenting
- Worked with a team of 8 total in close collaboration with the High Speed Aerodynamics and Propulsion Laboratory on UMD campus in order to conduct self/team-guided research on the effect of airfoil geometry on hypersonic flight. Flights at Mach 6.
- Lead team in using MatLab programming to analyze shadow imaging test data collected in the HAPL wind tunnel.
- Team organizer and main communications manager between the team's graduate student and professor advisors.

Engineering Design — Water Mission design and assembly: team project

January 2023 - May 2023

- Worked on a team in the Introduction to Engineering Design (ENES100) class to design and build an OTV from scratch in order to complete set missions
- Acted as main CAD designer and 3D printer. Programmed arduino and performed basic engineering calculations.
- Presented at the ENES100 showcase for **best performing water mission**.

Activities

College Park Scholars Student Advisory Board — Arts Scholars Representative

October 2022 - Present

- Freshman representative for the University of Maryland Arts Scholars program. Part of a board that discusses issues pertaining to the College Park Scholars program as well as give input to faculty on different agendas.
- Implement and improve the experience for students within the College Park Scholars

College Park Scholars Peer Mentor Program — Peer Mentor

2023-24 School Year

- connect with new freshmen within the Arts Scholars program and help them adjust to college life. Create lasting bonds and experiences within the College Park Scholars Community.
- Lead, execute, and facilitate various community activities within the Scholars program.

Skills

- Proficient with CAD software (Inventor, SolidWords, Fusion360)
- 3D Printing (for projects and recreationally)
- C++, MatLab, and Arduino programming
- Communication, punctuality, teamwork, problem solving, self-management