

Josiah Wheeler

EDUCATION

Atholton Highschool

Expected Graduation: 06/2027

GPA: 4.57

EXPERIENCE

Intern at CEI(Community Ecology Institute)

- Conducted community-focused research on designing sustainable garden spaces and implementing waste-reduction and violence reduction strategies to enhance environmental health.
- Contributed to ecological restoration by installing gardens, saving native species, and maintaining pollinator habitats.

Youth Exhibit Guide at National Aquarium

- Served as an Exhibit Guide at the National Aquarium, studying animal behavior and biology while giving engaging educational presentations and leading guests through exhibits to enhance their understanding of marine conservation.

Afterschool Music Tutor

- Taught and refined flute and musical skills of children ages 9-13 through individual lessons

Team Enough Howard County & Baltimore

- Founded and led the Howard County chapter of Team Enough, organizing events and managing student participation, mobilizing students to advocate for gun safety and responsible regulation.

National Geographic Slingshot Challenge

- Conducted and presented research pitch for the protection of monarch butterflies across the East Coast to a student conference hosted by National Geographic.

Science-In-Society Annual Conference

- Participated in the Science in Society Conference—a local STEM event where science and medical professionals present research—engaging with current scientific work and networking with professionals to deepen my understanding of scientific and medical fields.

Amazon Workforce center

- Visited the Amazon Workforce Center in Virginia to discuss applications of artificial intelligence, cloud computing, and workforce engagement strategies in technology driven programs.

Observational Research Studies

- Sat in observation and interview sessions with healthcare professionals and patients in order to collect data and information on procedures specifically dealing with the care of patients with Parkinson's disease using Deep Brain Stimulation Device

Johns Hopkins Applied Physics Laboratory SLC

- 1 of 5 students from my school chose to present my current research at the Johns Hopkins Applied Physics Laboratory Student Learning Conference this year.

Executive Chair of Howard County Equity Committee for Students

- Collaborating with administrators and students from diverse backgrounds to empower student voices, particularly the ones from historically underrepresented communities. Through this position, I have advocated for equitable practices in our schools, from policies such as 504 plans, to organizing cross cultural student events where students throughout the county can engage in cross cultural networking, bonding, and problem solving. Not divided, but as a team.

PROJECTS

Community Ecology Institute Peace garden

- Collaborated on the creation of the Peace Garden at CEI, designing a community green space to inspire mindfulness and connection with nature, while promoting climate action and environmental stewardship through clean-up initiatives and advocacy

The Monarch Blueprint Initiative

- Independently developed a research project for the National Geographic Slingshot Challenge, producing an infographic, paper, and video presentation advocating for climate action and initiatives to protect the monarch butterfly population in the U.S.

Independent Neuroscience Research Project

- Conducting independent research on integration of AI into Deep Brain Stimulation (DBS) to improve efficiency and accuracy of care for Parkinson's patients, including developing a research paper, presenting findings, and observing DBS system programming in a clinical setting.

LEADERSHIP

- Founder of Team Enough Howard County Chapter
- Executive Chair of Howard County Equity Committee
- Vice President of Atholton Green Team
- Vice President of Tri-M Music Honor Society
- Wind Captain and Section leader of Atholton Marching Band

RELEVANT COURSEWORK

- | | |
|---|---------------------------------------|
| ☐ AP Computer Science Principles | ☐ Biology GT |
| ☐ AP Computer Science A | ☐ AP Biology |
| ☐ Precalculus GT | ☐ Chemistry GT |

- ☐ Geometry GT
- ☐ Algebra II & Trigonometry
- ☐ Spanish 1,2,3,4, and 5AP

SKILLS

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| ☐ Computer Programming | ☐ Machine Learning | ☐ Organizational Development |
| ☐ IT Skills | ☐ Research Project Manager | ☐ Data analysis |
| ☐ Executive Communication | ☐ Complex Problem Solving | ☐ Java |
| ☐ Student Engagement | ☐ Python | |
| ☐ JavaScript | | |

NOTABLE EXTRA-CURRICULARS

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| ☐ Rho Kappa National Social Studies Honor Society | ☐ National Technical Honor Society |
| ☐ National Science Honor Society | ☐ National English Honor Society |
| ☐ National Music Honor Society | ☐ MESA |
| ☐ Black Student Union | ☐ Youth Climate Institution |
| ☐ Team Enough Baltimore | ☐ Team Enough Howard County |
| ☐ Octave Music Tutoring | |