

## Shine Park

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## EDUCATION

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### THE GEORGE WASHINGTON UNIVERSITY Bachelor of Science in Mechanical Engineering

Washington, DC  
May 2026

GPA: 3.10

Relevant Coursework includes: Engineering Drawing & Computer Graphics, Manufacturing Processes and Systems, Mechanical Systems Design, Statics & Dynamics, Thermodynamics, Algorithms and Data Structures, Heat Transfer, Materials Engineering

### UNIVERSITY OF EDINBURGH Study Abroad

Edinburgh, Scotland  
August 2024 – Dec 2024

Activities: Member of Engineering for Change: Precious Plastics

## WORK EXPERIENCE

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### National Institute of Standards and Technology Summer Undergraduate Researcher

Gaithersburg, MD  
June 2024 – August 2024

- Developed a MATLAB program to analyze grayscale images of soot-laden surfaces.
- Compared grayscale values to soot deposition determined from pre-weighed target measurements.
- Evaluated the performance of grayscale image analysis against a non-invasive photo-acoustic method.
- Contributed to advancing non-invasive techniques for post-fire surface contamination assessment.

### George Washington University – ART-Med Lab Research Assistant Intern

Washington, DC  
August 2023 – May 2024

- Studied C# programming to develop VR and AR applications for biomedical services and engineering.
- Gained experience in immersive technology for medical and engineering applications.

### University of Southern California Student Research Assistant

Los Angeles, CA  
August 2021 – May 2022

- Investigated the effects of virtual reality games on spinal cord injury rehabilitation.
- Coded and analyzed interview data from patients and healthcare professionals.
- Conducted a literature review to synthesize findings on VR applications in rehabilitation.

## SKILLS/ACTIVITIES

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**Technical:** AutoCAD, SolidWorks, Python, Java, MATLAB, Microsoft Office, Google Suite, Organization, Communication, Teamwork, Problem Solving, Time Management

Chair, American Institute of Aeronautics and Astronautics, Washington, DC, 4 years

Member, California Scholarship Federation, Los Angeles, CA, 3 years

Team Lead, Marlbots 3526 - First Technology Challenge Robotics, Los Angeles, CA, 4 years