

## Contact

peterseelman5@gmail.com

[www.linkedin.com/in/peter-seelman](https://www.linkedin.com/in/peter-seelman)  
(LinkedIn)

## Top Skills

Project Management  
Research and Development (R&D)  
Computing

## Languages

English (Native or Bilingual)  
Spanish (Professional Working)

## Certifications

3rd Degree Black Belt in Taekwondo

## Honors-Awards

Seal of Biliteracy in Spanish

# Peter Seelman

Hodson Trust Scholar at Johns Hopkins University | Computer Scientist for NASA's EZIE mission  
Gaithersburg, Maryland, United States

## Summary

JHU Physics and Mathematics major with a passion for innovation and leadership. I'm continually exploring the exciting intersections of disciplines, which has led me to gain experience in software development for NASA missions, quantum computers, and AI-based technologies.

Ultimately, I'm committed to advancing humanity through excellent leadership, technological development, and collaboration.

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## Experience

The Johns Hopkins University Applied Physics Laboratory  
3 years 1 month

Computer Science Intern on NASA's EZIE Mission  
May 2023 - Present (2 years 2 months)  
Laurel, Maryland, United States

Engineer and scientific communicator for NASA's EZIE-Mag citizen science outreach program.

Converted codebase for instrument calibration from IDL to Python.

Debugged data pipeline algorithms for EZIE spacecraft.

Built and verified EZIE-Mag sensor kit before mass distribution.

Quantum Computing Intern  
June 2022 - October 2023 (1 year 5 months)  
Laurel, Maryland, United States

Research and implement methods of error mitigation and algorithmic compilation for simulations run on quantum computers. These quantum physics-based devices are a novel and revolutionary computing paradigm. Done under the mentorship of experimental and theoretical physicists using Python, GitHub, LaTeX, Jupyter Notebooks, and IBM quantum computing devices. Delivered two scientific presentations to experts and the public on my work. Attended three professional Quantum colloquiums at Princeton

University and the University of Maryland. Presented at the APL ASPIRE showcases. Published scientific poster and paper via IEEE ISEC 2023.

### Kids Enjoy Exercise Now - KEEN USA

Volunteer

February 2018 - October 2023 (5 years 9 months)

Maryland, United States

Taught kids with mental and physical disabilities rudimentary Taekwondo while keeping the experience interesting, enjoyable, and safe.

### OpenAir Flight Training

1 year 10 months

Assistant Social Media Manager

July 2021 - March 2022 (9 months)

Maryland, United States

### Flight Intern

June 2020 - August 2021 (1 year 3 months)

United States

Attended to customers who chartered private flights. Flew planes back to Montgomery County Airpark. Cleaned and maintained planes such as Cirrus SR20, SR22, and SR22T.

### Camp Flaming Arrow

Camp Director

June 2020 - September 2021 (1 year 4 months)

Montgomery County, Maryland, United States

Supervised children ages 6-12 while providing and creating engaging, athletic, and fun activities

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## Education

The Johns Hopkins University

Bachelor of Science - BS, Physics · (August 2023 - May 2027)

The Johns Hopkins University

Bachelor of Arts - BA, Mathematics · (August 2023 - May 2027)

Glenelg Country School

High School Diploma, High School/Secondary Diplomas and  
Certificates · (2019 - 2023)