

# Sophia Hann

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## EDUCATION

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### Columbia University, Fu Foundation School of Engineering and Applied Science

New York, NY

*Bachelor of Science in Engineering* | GPA: 4.25

Exp. May 2026

Relevant Coursework: The Art of Engineering (A<sup>+</sup>), Multivariable Calculus (A)

### Lexington High School

Lexington, MA

*High School Diploma* | GPA: 4.21

May 2022

Relevant Coursework: AP Computer Science A (5/5), AP Physics C Mechanics (5/5), AP Physics C E/M (5/5)

### Harvard Extension School

Cambridge, MA

*Dual Enrollment*

Sep. 2021 – May 2022

Coursework: Multivariable Calculus (A), Linear Algebra (A)

## EXPERIENCE

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### Student Research Experience in Astronomy (Stream Team)

New York, NY

*Research Assistant*

Jan. 2023 – May 2023

- Identifying and characterizing stellar streams in the Milky Way galaxy using Python

### FIRST Tech Challenge Robotics Team 14079

Lexington, MA

*Volunteer Teacher for Computer-Aided Design (CAD) Lessons*

May 2020 – Mar. 2021

- Designed projects in Onshape to introduce students to different tools
- Taught CAD to middle schoolers using Onshape
- Shared my experience in robotics to spark interest in engineering

## EXTRACURRICULAR

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### Columbia Space Initiative

New York, NY

*Member of Micro-G Mission Mechanical Engineering Subteam*

Sep. 2022 – Present

- Working on CAD of unmanned surface vehicle in Solidworks

### MIT Beaver Works Summer Institute

Cambridge, MA

*Member of Unmanned Aerial Systems – Synthetic Aperture Radar Program*

Jul. 2021 – Aug. 2021

- Used NumPy, Matplotlib, and OpenCV to process, analyze, and visualize radar data in Python

### FIRST Tech Challenge Robotics

Lexington, MA

*Member of Build/Design Team, Director of Operations*

Oct. 2018 – Apr. 2022

- Designed, prototyped, and modeled parts and assemblies of robot in Solidworks
- Fabricated and assembled parts in workshop and machine shop
- Managed team schedule and kept team on track
- Documented engineering design process

## SKILLS AND INTERESTS

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*Design*: Solidworks, Onshape, Fusion 360; Adobe XD, Illustrator, InDesign, Photoshop, Premiere Pro

*Computer*: Python, Java; Microsoft Office Suite; Google Workspace

*Fabrication*: CNC Mill, Manual Lathe, Bridgeport Knee Mill, Vertical/Horizontal Bandsaw, 3D Printer, Laser Cutter

*Hobbies*: Birdwatching, Bird Photography, Crocheting