

Sophia Hann

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science

New York, NY

Bachelor of Science in Engineering | GPA: 4.20

Exp. May 2026

Relevant Coursework: The Art of Engineering (A⁺), 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

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

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

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