

# Sam Savitt

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## EDUCATION

### Duke University, B.S.E. in Mechanical Engineering with Aerospace Engineering Certificate August 2021-May 2025

- *GPA:* 3.99/4.0 (Magna Cum Laude)
- *Honors:* Departmental Distinction, Dean's List with Distinction, Phi Beta Kappa, Tau Beta Pi, and Pi Tau Sigma
- *Relevant Coursework:* Aircraft Performance, Aircraft Propulsion, Compressible Fluid Flow, Fluid Mechanics, Thermodynamics, Dynamics, Advanced Vibrations, Control Systems, Engineering Design & Communication

## WORK EXPERIENCE

### F-35 Flight Test Engineering Intern, Lockheed Martin Aeronautics May 2024-August 2024

- Supported F-35B/C flight test ops from planning to execution as qualified scribe and test conductor-in-training
- Designed custom IADS telemetry software for carrier test missions to improve control room situational awareness
- Coordinated briefs, test plans, and simulator training events working directly with test pilots and flight ops team

### F-35 Manufacturing Test Engineering Intern, Lockheed Martin Aeronautics May 2023-July 2023

- Developed, operated, and maintained test systems for Radar Cross Section (RCS) testing of production F-35 aircraft
- Owned design of interactive MATLAB data processing tools for real-time RCS and stealth data analysis
- Improved Acceptance Test Facility operations database (C#/SQL) to streamline information flow

### Engineering Researcher, Mide Technology Corporation May 2019-August 2020

- Evaluated enDAQ vibration data loggers for structural health monitoring and condition-based maintenance
- Selected as a 2021 *Regeneron Top 300 Science Talent Scholar* and presented at regional NY science symposiums

## PROJECTS AND ACTIVITIES

### Founder & President, Duke Aviators August 2022-May 2025

- Founded Duke Aviators organization for student aviation enthusiasts, growing to 50+ active members over 3 years
- Led development of an immersive, custom-engineered flight simulator to maximize on-campus flying accessibility
- Coordinated 60+ free discovery flights for student members and ran local middle/high school aviation workshops

### Formation Flight Design, Original Independent Research February 2024-May 2025

- Conducted original Constructal Theory research optimizing formation flight configuration under Prof. Adrian Bejan
- Published peer-reviewed article in *BioSystems* as sole author and presented at 2024 Constructal Law Conference

### Advanced Electric Glider Design, Duke ME Capstone/Honda Aircraft Company August 2024-May 2025

- Led flight test subteam for RC electric glider design capstone project for Honda Aircraft Company client
- Developed flight test plans, procedures, and instrumentation to test novel landing gear and winglet designs onboard
- Served as Remote PIC/test conductor during flight tests and performed post-flight glide performance analysis

### Payload Team Lead & Structures Engineer, Duke AERO August 2021-April 2024

- Led design, manufacturing, and execution of payload section for 2023 Spaceport America Cup competition rocket
- Developed a versatile CubeSat dispenser system and a 3U CubeSat vehicle to deploy from rocket on descent
- Received *Jim Furfaro Award for Technical Excellence* for overall exceptional engineering skill and discipline

### FAA-Certified Private Pilot and Remote (Unmanned) Pilot March 2021-Present

- Earned Private Pilot Certificate via *AOPA Flight Scholarship* (now >85 flight hours) and Remote Pilot Certificate

## SKILLS AND OTHER INVOLVEMENTS

- *Software:* CAD/FEA/CFD, Solidworks, MATLAB, Python, IADS, C++, SQL, microcontrollers, Microsoft Office
- *Manufacturing:* carbon-fiber and fiberglass composites, CNC mill and lathe machining, laser cutting, 3D printing
- *Additional Involvements:* Krzyzewskiville Line Monitors (VP of Tenting), Club Ski & Board Team (Safety Officer)