

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 w/ 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 on-campus, immersive, custom-engineered flight simulator to maximize 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 with 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
- Responsible for leading team meetings, making design and manufacturing decisions, and integrating with rocket

Private Pilot, Aircraft Owners and Pilots Association *March 2021-Present*

- Earned Private Pilot Certificate in a Cessna 172 (2021) via AOPA Flight Scholarship, now with >85 flight hours

SKILLS AND OTHER INVOLVEMENTS

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