

Sam Savitt

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EDUCATION

Duke University, Pratt School of Engineering, Class of 2025

August 2021-May 2025
(Expected)

- B.S.E. in Mechanical Engineering, with Aerospace Engineering Certificate
- GPA: 3.99/4.0
- Selected for Engineering Dean's List (Spring '24) & '24 Commencement Student Marshal
- University of New South Wales: Fluid Mechanics and Advanced Vibrations (Fall '23)
- Relevant Coursework: Aircraft Performance & Propulsion, Engineering Design and Communication, Fluid Mechanics, Thermodynamics, Dynamics, Control Systems

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
- Increased test procedure efficiency such that an aircraft load, test, and unload could be completed in one work shift

Engineering Researcher, Mide Technology Corporation

May 2019-August 2020

- Evaluated the use of enDAQ vibration data loggers for health monitoring and condition-based maintenance of aircraft systems, demonstrating their potential to improve efficiency of aircraft maintenance operations
- Selected as a 2021 Regeneron Top 300 Science Talent Scholar and presented at regional NY science symposiums

PROJECTS AND ACTIVITIES

Private Pilot, Duke Aviators (Founder/President)

July 2020-Present

- Received Private Pilot Certificate in a Cessna 172 (March '21) with >85 flight hours logged (via AOPA scholarship)
- Founded Duke Aviators organization for student aviation enthusiasts and grown to 50+ active members over 3 years
- Leads development of on-campus, immersive, custom-engineered flight simulator to maximize flying accessibility
- Coordinates 30+ free introductory discovery flights per year for student members through partner flight school

Formation Flight Optimization, Original Independent Research

February 2024-Present

- Conducts original Constructal Theory research optimizing formation flight configuration under Prof. Adrian Bejan
- Work selected to present at 2024 Constructal Law Conference in Bucharest, Romania and potentially published

Payload Team Lead and Structures Engineer, Duke AERO Society

August 2021-Present

- 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 integration with rocket
- Structures Engineer ('21-'22): owned CAD of avionics sled and manufactured aluminum & composite components

SKILLS AND OTHER INTERESTS

- **Software:** CAD/3D Printing, Solidworks, MATLAB, Python, C++, SQL, microcontrollers, Microsoft Office
- **Manufacturing:** carbon-fiber and fiberglass composites, CNC mill and lathe machining, laser cutting
- **Extracurricular Interests:** Krzyzewskiville Line Monitors (VP of Tenting), Club Ski and Board Team, Theater