

**Spencer Flint, 2Lt, USAF**  
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**Education:**

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**U.S. Air Force Academy, Class of 2021** **Colorado Springs, Colorado**  
*Mechanical Engineering Major*  
GPA: 3.78, Distinguished Graduate #15

**Employment and Professional Experience:**

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**2<sup>nd</sup> Lieutenant, United States Air Force (May 2021 – Present)** **Seattle, Washington**  
Currently pursuing a Master of Science in Aeronautics and Astronautics at the University of Washington, Seattle as a 2<sup>nd</sup> Lieutenant in the USAF.

**Cadet, United States Air Force (June 2017 – May 2021)** **Colorado Springs, Colorado**  
Held various leadership positions within the cadet wing including those that organized and oversaw up to over 1000 cadets at a time. Specialized primarily in directing military training and athletics. Held supporting roles directing academics, morale and welfare, and general operations for various sized groups.

**Researcher – Unmanned Robotics, USAFA (July 2020 – May 2021)** **Colorado Springs, Colorado**  
Lead research on unmanned robotic flight and navigation in complex underground systems. Developed potential solutions to mapping and gathering reconnaissance hazardous or remote facilities and bunkers.

**Researcher – Aircraft Design, USAFA (January 2020 – March 2020)** **Colorado Springs, Colorado**  
Contributed to research on rapid aircraft conceptual design for a robotic aircraft to accompany both F-22 and F-35 flight leads, conducted simulated structural tests for potential wingbox designs.

**Researcher – Satellite Communication, Viasat (June – July 2019)** **Carlsbad, California**  
Worked on Mobile Satellite Gateway project in summer research program to enable readily available communication in more remote areas. Designed structure and system layout for mobile truck waypoint.

**Researcher – Biomechanics, Science Academy Program (January – April 2017)** **Knoxville, Tennessee**  
Studied the effects of height and mass on walking gait in a bipedal being or system. Sent to national competition to present research results (National Junior Science and Humanities Symposium).

**Awards and Honors:**

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**USAFA Superintendent's List (August 2017 – May 2021)**  
Received for 7 of 8 semesters and overall. Academic, military, and athletic excellence demonstrated through the Dean's List, Commandant's List, and Athletic Director's List (top 10% of class in each area).

**Tau Beta Pi Engineering Honor Society Membership (October 2019 - Present)**  
Membership awarded to the top 10% of engineering students during junior year.

**U.S. Air Force Academy Scholars' Program (August 2017 – Present)**  
Competitively selected for USAFA's honors program which allows students to take part in small seminar courses that are more discussion and comprehension based than traditional courses. Graduated #7.

**Military Training:**

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**USAFA Flight Test Course (August 2020 – December 2020)** **Colorado Springs, Colorado**  
Demonstrated flight test techniques as a training test engineer in the Cessna T-41D single engine aircraft and Northrop T-38C twinjet supersonic jet trainer, conducted extensive data reduction and analysis.

**Powered Flight Program (November 2019 – March 2020)** **Colorado Springs, Colorado**  
15 hours of virtual reality ground school simulated flight; 18 hours piloting the Cirrus T-53A including basic operation without instructor intervention. Scheduled to solo before program ended due to COVID-19.

**Expeditionary Survival Training (July – August 2018)** **Colorado Springs, Colorado**  
Learned and developed patrol tactics, base defense operations, urban combat, land navigation, prolonged wilderness survival, teamwork, and weapon operation and maintenance.

**Freefall Parachuting Airmanship Program (June – July 2018)** **Colorado Springs, Colorado**  
Intense ground school in preparation for parachuting from an airplane with no previous experience. Five solo jumps with highest possible performance rating. Earned Air Force Parachutist Badge.

**German Proficiency Badge Testing (October 2017)** **Colorado Springs, Colorado**  
Demonstration of excellence in various areas such as athleticism, marksmanship, and mental fortitude.

**Basic Cadet Training (June – July 2017)** **Colorado Springs, Colorado**  
Completed basic training for cadets entering the U.S. Air Force Academy.

**Technical Skills:**

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**Physical Design and Testing**

Automotive Design/Fabrication, Additive Manufacturing, Mechatronics, Data Acquisition, Machining.

**Computer Aided Engineering and Programming**

Fusion360, Mathematica, Python, Patran, Nastran, JavaScript, Arduino, MATLAB, ROS.

**Extracurricular Activities/Athletic/Service:**

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**Air Force Formula SAE Racing Team (August 2017 – May 2021)**

Worked on USAFA's Formula SAE team, helping design, build, and test a prototype racing vehicle for each academic year. After successful testing, vehicle brought to competition and raced by team members.

**USAFA Cycling Team (August 2017 – May 2021)**

Trained with the USAFA Cycling Team, modified and maintained bikes regularly. Primarily mountain biking at various local trails, nearby mountain single-tracks, and slopestyle dirt jump parks.

**USAFA Freestyle Ski and Snowboard Team (August 2017 – May 2021)**

Practiced every in-season weekend in preparation for regional and national slopestyle competitions. Team of around 20 cadets, both skiers and snowboarders, male and female. Competed in 3 regional championships and 2 national championships. Helped snowboarders sweep the podium for 2020 Nationals.

**USAFA Mountaineering Club (August 2017 – May 2021)**

Climbed mountains and rock faces with groups ranging in size from 2 to 20. Learned from the experts and helped teach newcomers how to climb safely and enjoy the limitless adventures that Colorado has to offer.

**U.S. Air Force Academy 500 Club**

One of only ~20 cadets in a class of 1059 to obtain the maximum possible score on all four annual cadet physical fitness tests. One of only ~100 cadets in the class to obtain that score at least once.

**Eagle Scout (April 2015 – Present)**

Eagle Scout with bronze, gold, and silver palms. Completed numerous hours of community service including a culmination service project totaling over 100 man-hours and continuing to impact lives today.

**Personal Hobbies:**

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Automotive design and racing, riding motorcycles, mountain biking, and skiing/snowboarding.

Fixing the thing I was driving or riding after breaking it.

Drawing (aka doodling next to notes in class).