

**Spencer Flint, 2Lt, USAF**  
scistone9@gmail.com +1 (865) 283-7610

**Education:**

- 
- University of Washington, Graduated 2023** **Seattle, Washington**  
*Master of Science, Aeronautics and Astronautics*  
GPA: 3.85
- U.S. Air Force Academy, Class of 2021** **Colorado Springs, Colorado**  
*Bachelor of Science, Mechanical Engineering*  
GPA: 3.78, Distinguished Graduate #15

**Employment and Professional Experience:**

- 
- 2<sup>nd</sup> Lieutenant, United States Air Force (May 2021 – Present)** **Wichita Falls, Texas**  
Currently enrolled in Euro-NATO Joint Jet Pilot Training at Sheppard AFB, Texas as a 2<sup>nd</sup> Lieutenant in the USAF. Previously in charge of scheduling and conducting physical testing at University of Washington for other USAF enlisted members and officers in the local area.
- 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 – Multiphase Structures, UW (September 2021 – March 2023)** **Seattle, Washington**  
Conducted research on tuning aeroelasticity using multiphase materials in supersonic and hypersonic aircraft. Developed new proof of concept that could lead to future breakthroughs in the field.
- 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:**

- 
- 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).
- Phi Kappa Phi Honor Society Membership (March 2021 - Present)**  
Membership awarded to select students in the top 7.5% of their respective class.
- 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:**

- 
- Euro-NATO Joint Jet Pilot Training (May 2023 – Present)** **Wichita Falls, Texas**  
Undergoing flying training program designed to produce the world's best combat pilots for the USAF and NATO. Only about 200 student pilots earn wings annually after training on the T-6A single engine turboprop and T-38C twinjet supersonic jet at Sheppard AFB.
- Initial Flight Training (May 2023 – Present)** **Pueblo, Colorado**  
Learning the basics of flight in the Diamond DA-20 prior to flying the more powerful T-6A.

- 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.
- 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:**

#### **Physical Design and Testing**

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

#### **Computer Aided Engineering and Programming**

Abaqus, ROS, Fusion360, Solidworks, Python, JavaScript, Patran, Arduino, MATLAB, Mathematica.

---

### **Extracurricular Activities/Athletic/Service:**

#### **University of Washington Cycling Team (September 2021 – March 2023)**

Trained and competed with the University of Washington's Cycling Team in cross-country mountain biking, gravel biking, and road biking.

#### **University of Washington Running Team (September 2021 – March 2023)**

Trained with the University of Washington's Running Team for fitness and community development.

#### **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:**

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).