

Parker McCall

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Experience

Propulsion Engineer, Liquid Rocketry Lab – Raleigh, North Carolina (20 hr/week) Sept 2025 – Present

- Designed and integrated a sub-scale liquid rocket engine test stand, including fluid routing, instrumentation, and structural systems, enabling 2 hot-fire tests with 90 lbf over 4 seconds and improved test repeatability.
- Contributed to the design, hot-fire testing, and performance optimization of the Argentia-7A liquid rocket engine, supporting 7,000 lbf-class operation and achieving ~15% improved accuracy in DAQ for main tanks.
- Created calibration procedures and installed hoses and sensors on our main test stand's HTP and Jet A tanks.

Operations Control Center Supervisor, United States Air Force – Aviano, Italy (50 hr/week) May 2021 – Aug 2023

- Directed and controlled dispatching of 20 personnel for the logistical support and resupply of fighter aircraft.
- Coordinated fueling, cryogenic operations, and lab sampling for all pilot missions on Aviano AB.
- Managed a \$79M fuels account, conducting audits, ledger analysis, journal entries, and variance reports.

Aircraft Fuels Facilities Operator, United States Air Force – Kunsan, South Korea (72 hr/week) May 2020 – May 2021

- Oversaw maintenance and operation for 8 underground tanks and 16 integrated combat turn-around SPs.
- Conducted comprehensive quality surveillance and facility compliance audits totaling \$144M worth of assets.
- Developed checklists and procedure guidelines for newly installed machinery as well as trained new personnel.

Aircraft Fuels Distribution Operator, United States Air Force – Robins AFB, Georgia (50 hr/week) Sept 2018 – May 2020

- Deployed to the Middle East aided in operations in hostile locations as well as fueling aircraft in a combat zone.
- Executed rapid refueling operations in high-tempo combat environments, ensuring mission readiness.

Skills and Relevant Coursework

Design & Simulation: Solidworks, Fusion360, 3D Printing, Thermocouples, Pressure Transducers, Actuators.

Programming & Data: Jira, Confluence, Matlab, Python, MS Word, MS Excel, MS Powerpoint.

Coursework: Solids, Aerodynamics, Aerial Vehicle Performance, Fluid Mechanics, Thermodynamics, Dynamics, Statics.

Education

North Carolina State University Expected in May 2028

Bachelor of Science in Aerospace Engineering

Professional Affiliations

NCSU Ski Club Treasurer - Innovated and developed a new process for member payments and transaction accounting.

Theta Tau, Professional Engineering Fraternity - Actively Collaborate with 80 engineering students across disciplines to support academic, professional, and leadership growth.

Base Honor Guard - Hand-picked to perform military ceremonial duties such as presenting the colors, folding retirement flags, and conducting POW/MIA ceremonies.

Sexual Assault Prevention and Response - Providing support for survivors through prevention education, advocacy, and response services, helped in aid for over 5,000 residents.

Additional Extracurriculars

LRS Booster Club Vice President, Flight Council President, Dorm Council Vice President, Aviano Varsity Volleyball Team.

Awards

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- Promote Now - Highest level of selection as 1 of 3 among the base of 400 E-3s, awarded once a year.
 - Below the Zone - Extremely competitive selection as 1 of 3 among the entire wing of 1,000 selectees to promote.
 - Ranked via test scores and merit as 7th out of 684 eligible across the USAF for promotion to Staff Sergeant
 - Airman of the Year - Awarded for my decision making and leadership in directing flightline operations.
 - Airman of the Quarter - Awarded for excellence in mission support and operational efficiency.