

**EDUCATION****M.S., Aeronautics & Astronautics**  
Stanford University**B.S., Aeronautical Engineering**  
U.S. Air Force Academy (USAFA)  
Distinguished Graduate/Top Aero Graduate**TEACHING EXPERIENCE & AWARDS****Instructor, Smead Aerospace Sciences Engineering**University of Colorado – Boulder (CU)  
- Department outstanding undergrad instructor AY19-20  
- College Peebles Innovation in Education Award 2019  
- University Marinus Smith Teaching Award 2019**Assistant Professor, Deputy Aero Lab Director, Aircraft Design Course Director, Aeronautical Engineering, USAFA**- Orlosky Award for Outstanding Contributor 2012  
- Department Field Grade Officer of the Year 2010  
- Department Top New Instructor Award 2009**Weapons & Tactics Instructor**Air Force Weapons School, Nellis Air Force Base  
- Twice voted outstanding mission instructor  
- Outstanding Graduate of Weapons Instructor Course 2004 (Intelligence Division)**RECENT WORK HISTORY**

2018 - Present	Instructor, Associate Chair for Undergrad Operations (as of July 2021) Smead Aerospace Engineering Sciences University of Colorado – Boulder
2015-2018	Chief, Target Operations & Plans Joint Staff Intelligence Directorate Pentagon-Washington, DC
2012-2015	Deputy Division Chief, Intelligence, Surveillance & Reconnaissance Joint Base Pearl Harbor, Honolulu, HI
2009-2012	Deputy Lab Director, Assistant Professor of Aeronautical Engineering USAFA, Colorado Springs, CO
2007-2009	Director of Operations, Instructor Air Force Weapons School, Nellis Air Force Base, Las Vegas, NV

**HIGHLIGHTED ACCOMPLISHMENTS****Teaching**

- In 7 semesters at CU, instructed or advised 2000+ students over 5 different undergraduate engineering courses ranging from freshmen to senior level.
- Broad instructional range; instructed courses across general engineering, aerodynamics, aircraft performance & design, and aircraft stability and control at CU.
- Developed and implemented open-ended glider design lab for 250+ student course at CU. Enabled fabrication of 50+ unique student gliders over 7 weeks to meet performance requirements deepened student knowledge of concepts.
- Awarded \$3000 through CU Engineering Excellence Fund to purchase camera and data capture electronics to enhance ASEN 2004 glider lab; additional hardware improved data capture for student analysis of flights
- As course director for USAFA aircraft design course, integrated autopilots, multi-variable optimization tools, and new fabrication techniques for rapid prototyping.
- Member of team developing USAFA unmanned aircraft flight test techniques; evaluated propulsion system and performed drag polar analysis of new designs.
- Developed instruction plans for foundational aero engineering course taken by all USAFA cadets; comprehensive teaching aid still used today.

**Leadership, Service and Management**

- As Associate Chair for Undergrad Ops, managed faculty teaching assignments for 48 faculty, coordinated scheduling needs across 56 courses and labs, adjudicated 88 student petitions, and evaluated 42 courses for student transfer credit.
- Developed consolidated teaching and course planner spreadsheet; merged three planners and automated processes to eliminate errors in resource planning.
- Analyzed course data of assessments across all undergrad courses as member of the teaching methodologies subcommittee; enabled informed decisions on effective assessments and management of student workload.
- Member of Aero Buffs Engineering Education Research group; discuss and evaluate current literature on engineering education research to maintain currency.
- Co-faculty advisor for student AIAA and Design, Build, and Fly clubs; support scheduling of events to promote professional development of students, provided aircraft design advice, and career mentoring to students.
- Directed ops for \$200M USAFA Aeronautics lab; managed 25+ personnel, 5 wind tunnels, 4 engine test cells, supercomputing center, and fabrication shops for 50+ Department of Defense (DoD), NASA and industry projects.