



Laurence J. Jacobs
Professor and Associate Dean for Academic Affairs
College of Engineering
Georgia Institute of Technology
Atlanta, GA 30332

Society of American Military Engineers
The Century House, 607 Prince Street
Alexandria, VA 22314

This letter certifies that Miss. Catherine Schlabach's cumulative Grade Point Average is a 3.57 which easily places her in the top 25% of her Aerospace Engineering class. While maintaining this above-average GPA in one of the most challenging majors at Georgia Tech, Catherine excels in the AFROTC program as well as her various extracurricular involvements. Catherine is the Director of Operations for Arnold Air Society, an honor and service society within AFROTC. Here she has organized service events for the Squadron improving the Atlanta community. She continues to add flight time to her Private Pilot License through the Yellow Jacket Flying Club where she also served as the VP of Membership.

Beyond her outstanding leadership roles, Catherine strives to further her engineering knowledge. Although not a mandatory part of the Aerospace curriculum, Catherine has participated in Faculty-led research for the past 2 years. As a part of Georgia Tech's Aerospace Systems Design Lab, she worked on a Flight Safety project in conjunction with Delta airlines where she identified significant safety events through modeling and retrospective safety analysis and presented her findings to the team at Delta. Catherine stepped out of her expertise to facilitate PHD students in the robotics research department on operant conditioning of cyber physical systems. Never afraid to gain more experience, Catherine is currently working with Georgia Tech's Space Systems Design Lab on two projects. The first project is an independently developed CubeSat that will be deployed from the ISS in early February demonstrating a full lifestyle and operating capabilities of a university-developed CubeSat, "GT-1." Catherine also directly supports a NASA JPL lunar orbiter mission, "Lunar Flashlight," where she works in the Mission Operations Center monitoring the CubeSat as it analyzes ice on the lunar surface.

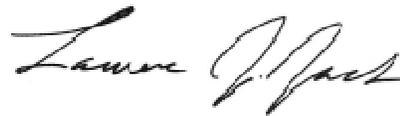
Catherine has many stand-out qualities besides her apparent academic qualifications. She was recently accepted into the elite group of students who will complete classes and undergrad-research alongside some of Georgia Tech's Aerospace Engineering professors at the University of Limerick in Ireland this Summer 2022. This past Fall Catherine seized the opportunity to join the Chief of Staff of the Space Force on her tour of the Aerospace Department. We could not have asked for a better student to reflect so highly on our Institute with her respect and communication skills. Her ambition and drive to put herself in new and challenging environments are evident.

Catherine's perseverance in the nation's top ranked Aerospace Engineering program, as well as her passion for the major and AFROTC continues to positively impact Georgia Tech's College of Engineering and those around her. I give my highest recommendations to Catherine for the AFROTC SAME award as she clearly represents the character, intellect, and drive of a young military leader and engineer.

As the Associate Dean for Academic Affairs of the College of Engineering at Georgia Tech, and as a professor with more than 33 years of academic experience at Georgia Tech, I have come in contact with a large number of excellent students. I consider Catherine to be one of Georgia Tech's most gifted and talented undergraduate students.

If I can be of further assistance, please do not hesitate to contact me by phone at (404) 894-2344, or by email at laurence.jacobs@coe.gatech.edu.

Sincerely

A handwritten signature in black ink, appearing to read "Laurence J. Jacobs". The signature is written in a cursive style with a large initial "L" and "J".

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