Samuel W Smiley

1 Forest Park Lane, Cornell University, Ithaca, NY 14850 | (774) 277-7962 | sws229@cornell.edu

EDUCATION

CORNELL UNIVERSITY COLLEGE OF ENGINEERING   **Ithaca, NY**
SIBLEY SCHOOL OF MECHANICAL AND AEROSPACE ENGINEERING   Anticipated Graduation May 2028
Candidate for Bachelor of Engineering in Mechanical Engineering

WORK EXPERIENCE

TREK BIKES   **Nashua, NH**
Sales Associate   July 2022 – August 2025
- Generated $300K in sales part-time by streamlining sales process and leveraging Excel for efficient customer outreach
- Trained coworkers in effective sales strategies to improve team performance and improve customer satisfaction

LEADERSHIP

SOCOM ATHLETE HELL DAY   **Long Island, NY**
Team Lead   Sept 2025 – October 2025
- Led a team of 10 future special operators in endurance and water confidence training
- Injury response protocols for Hell Day event, implemented risk management measures in response to multiple injuries
- Ranked in top five performers in athletic and mental toughness events among 40 athletes and active-duty personnel

CORNELL UNIVERSITY AIR FORCE RESERVE OFFICER TRAINING CORPS (ROTC)   **Ithaca, NY**
Contracted ROTC Cadet   Sept 2024 – Present
- Recipient of full tuition ROTC scholarship valued at $500k
- Secretary of Cornell Special Operations Club organizing rucking, running and water confidence training
- Produce motivational videos to improve detachment morale and cohesion
- Mentor cadets on career and ROTC pathways; support alumni outreach initiatives
- Awarded East Hill Flying Club Discovery Flight on April 24, 2025, for outstanding performance in Air Force ROTC

RELEVANT ACTIVITIES

SOCOM IGNITE IRON NET   **Ithaca, NY**
Product Development, Data Collection, TAK Integration   Sept 2025 – Present
- Co-founded a UAS detection program addressing a lack of lightweight mobile tracking for operators in Ukraine
- Collaborated with ECE team to design Raspberry Pi-based system using directional microphones for beamforming
- Research on theoretical architecture for TAK integration to enable real-time situational awareness in field operations

TECHNICAL SKILLS

- Programming: Python for data analysis and engineering, (MATLAB course in progress spring 2026)
- Acoustic Sensing: Experience with sensor integration and signal processing for UAS detection
- Experience working with Raspberry Pi based systems
- Data Analysis: Excel for modeling, visualization, and performance tracking
- Knowledge of signal processing: beamforming and data analysis

INTERESTS

COMPETITIVE ROAD AND MOUNTAIN BIKE RACING   **NH**
New England Youth Cycling and Cornell Cycling   March 2015-Present
- Competitor and coach for the Hillsborough Hawks, supporting practices, team development, and volunteer efforts
- 70 hours of volunteer service supporting the Nashua Community by repairing bicycles for underserved communities

COMPETITIVE BODYBUILDING AND POWERLIFTING   **NH**
OCB Shamrock Cup Classic   March 2015-Present
- Top three in a bodybuilding competition and total for squat, bench, and deadlift: 1,100 lbs