

Alek Broman

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EXPERIENCE

F-16 Aerospace Propulsion Technician Air National Guard, 148th Fighter Wing

Aug 2016 – Present, Duluth, Minnesota

- Revised erroneous maintenance schematics by drawing on the expertise of top experts in the unit and forming technical conclusions for remediation based on the analysis.
- Overhauled personnel in-processing pipelines by independently discovering, researching, and eliminating redundancies, which accelerated personnel qualification throughout the unit.
- Effectively directed and streamlined a laser etching workflow of the aerospace propulsion maintenance activities to create an efficiency that reduced overall maintenance time.

EDUCATION

Bachelor of Science, Computer Science, Dean's List

Minor in Computer Engineering and Mathematics • University of Minnesota Duluth • 2021

Associate of Applied Science, Aviation Maintenance Technology

Community College of the Air Force • 2021

U.S. Air Force Program, Aerospace Propulsion Technical Training

Sheppard Air Force Base • Wichita Falls, TX • 2017

U.S. Air Force Program, Basic Military Training

Lackland Air Force Base • San Antonio, TX • 2017

SKILLS

C++	Java	Python	HTML	CSS	G-code
Fusion 360	Cura	Unreal Engine	Git	MJML	

AWARDS

Honor Award: Placed Top 5 of 1200 Trainees

Basic Military Training • 2017

“In recognition of remarkable performance in Basic Military Training. You led the way for those around you and set the example for every Airman in every squadron.”

Top Graduate of 200 Trainees, 323rd Training Squadron

Basic Military Training • 2017

“Your superior attitude, bearing, discipline, appearance, physical fitness, and academic performance epitomized our Air Force Core Values and set you apart from your peers.”

Most Outstanding Airmen of 50 Trainees, Flight 253

Basic Military Training • 2017

“You exemplify the ‘whole-person concept’ which set you apart, increased esprit de corps, and were critical to the success of your flight.”

Small Arms Expert Marksmanship Award

Basic Military Training • 2017

“For completing the weapons qualification course on the M16 rifle and achieving an above-average score, demonstrating patience and precision throughout.”

Thunderbolt Fitness Excellence Award

Basic Military Training • 2017

“For exceptional dedication to physical fitness and esprit de corps, laying the foundation for success in the United States Air Force.”

PROJECT

Sunsabers

sunsabers.com • 2020 – 2021

- Conceptualized and designed lightsaber components with Fusion 360 and Cura.
- Manufactured lightsaber components with PLA and FFF 3D printing technology.
- Used components to assemble advanced, movie-like, duel-ready lightsabers with CF-X microcontrollers and NeoPixel LEDs.