

Alek Broman

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EXPERIENCE

F-16 Aerospace Propulsion Technician

148th Fighter Wing

Aug 2016 – Present, Duluth, MN

- Identified erroneous maintenance schematics by drawing on the expertise of top experts in the unit and drawing technical conclusions for remediation based on the analysis.
- Effectively directed and streamlined a laser etching work-stream of the aerospace propulsion maintenance activities to create an efficiency that reduced overall maintenance time.
- Overhauled unit-wide personnel in-processing criteria by independently researching in-process pipelines and then discovering and eliminating all redundancies and obsolete items.

EDUCATION

Bachelor of Science, Computer Science, Dean's List

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

Three-course Series, Fundamentals of Neuroscience

Harvard University • Remote • 2021

Aerospace Propulsion Technical Training

United States Air Force • Wichita Falls, TX • 2017

Basic Military Training

United States Air Force • San Antonio, TX • 2017

SKILLS

Languages: C++, Python, Java, HTML, CSS, R, G-code

Frameworks: MJML, Selenium WebDriver

Software: Git, Fusion 360, Cura, Unreal Engine

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 all Airmen 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 • github.com/polymods

Designed and manufactured advanced lightsaber components that deliver leading-edge functionality and durability to their wielder, while maintaining complicated, precision tolerances.