

# 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.

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## EDUCATION

### Bachelor of Science, Computer Science, Dean's List

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

### Aerospace Propulsion Technical Training

United States Air Force • Wichita Falls, TX • 2017

### Basic Military Training

United States Air Force • San Antonio, TX • 2017

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## SKILLS

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

Frameworks: MJML, Selenium WebDriver

Software: Git, Fusion 360, Cura, Unreal Engine

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## 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.”

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## 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.