ALEX MAYNES

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OBJECTIVE

Computer Science student, with extensive military experience as an Avionics Technician, seeking internship opportunities to apply learned skills and to work with experts in the field.

PROFESSIONAL SUMMARY

- 4+ years' experience as a U.S. Air Force Special Operations Avionics Technician
- Possess Active DOD Secret Clearance (Expires Jan/2025)
- 4+ years' experience leading specialized teams, troubleshooting, and facilitating aircraft functionality
- Solid background in software/hardware research, development, troubleshooting, process improvement, team executive leadership, and advising senior leadership
- Proficient in comprehensive risk management ensuring the protection and safe maintenance of assets worth over $3B

WORK HISTORY

Software Engineering R&D Intern, 01/2025 to Current
Knights Scientific Systems
Albuquerque, NM

- Contributing to the development of new software solutions for R&D projects contracted by the Department of Defense (DoD)
- Utilizing existing machine learning algorithms and integrating them into projects to meet specific DoD requirements
- Collaborating with a multidisciplinary team to research, prototype, and deploy innovative technologies using Computer Vision, React, and Python

Student Researcher, 09/2024 to Current
University Of New Mexico (UNM)
Albuquerque, NM

- Leading current research on hand gesture-controlled technology for the Dobot Magician Robotic Arm, developing affordable solutions for hazardous tasks to reduce human exposure to toxic environments using Computer Vision, machine learning, and Python

EDUCATION

Bachelor of Science, **Computer Science**, **Expected in 05/2026**
University of New Mexico - Albuquerque, NM
GPA: 3.57

COURSES & EXTRAS

- Calculus I/II
- Calculus Based Physics I/II
- Linear Algebra
- Discrete Mathematics
- Chemistry I
- UNM High Performance Computing (HPC) Team

TECHNICAL PROFICIENCY

- Java/Python/C++/C
- Hardware/software troubleshooting
- Data collection and analysis
- Project management
- Project development
- Project sponsorship
- MS Office 365

STRENGTHS

- Leadership skills
- Management skills
- Critical thinker
- Creative problem solver
- Team oriented
- Goal oriented
- Resilient

- Collaborating on integrating a module into UNM Mechanical Engineering classes showcasing hand gesture-controlled robotic technology to undergraduate students
- Preparing to present at the March 2025 ASEE-SW conference to highlight potential applications and broader impact

Weapons Controller, 11/2022 to 06/2024
United States Air Force
Albuquerque, NM

- Used data collection & analysis techniques to monitor and assess aircraft maintenance and mission data to facilitate real-time decision-making
- Using C# and Visual Basic, co-developed and implemented a world-wide program that automated aeronautics maintenance data collection processes with a 120% increase in speed and accuracy to treat a manning crisis
- Effectively managed a team of 3 weapons controllers, overseeing the operations center during periods of extended senior leadership absence
- Demonstrated proficiency in briefing executive leadership on real-time data, ensuring seamless communication and operational continuity

CV-22 Avionics Specialist, 12/2019 to 11/2022
United States Air Force
Albuquerque, NM

- Demonstrated expertise in troubleshooting and repairing avionics systems in the CV-22 Osprey
- Ensured over 4000 flight hours and facilitating aircraft operational readiness 24/7 including holidays and national emergency times
- Collaborated with cross-functional groups to implement maintenance best practices, streamline technical processes, and improved efficiency
- Instrumental in reduced aircraft downtime and increased mission success rates

CERTIFICATIONS & AWARDS

- CV-22 Avionics Journeyman, USAF, 2023
- Medal of Meritocracy, 2023
- Risk Management and Mitigation Course, USAF, 02/01/26
- Cyber Awareness Course, USAF, 02/01/25
- Suicide Awareness and Prevention Course, USAF, 02/01/25
- Military Service: Certificate of Appreciation, 2020
- Law of War Course, USAF, 2020
- FIRST Robotics Runner-Up World Champion, 2018