

# Joseph Moses Durgam

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Driven Mechanical Engineering major with a strong foundation in advanced engineering coursework and practical experience in balancing rigorous academic, military, and extracurricular responsibilities. As an officer candidate in the Arizona National Guard through NAU's Army ROTC, I have developed exceptional discipline, leadership, and time management skills. Known for my dedication, resilience, and commitment, I bring a solid work ethic and a mission-focused approach to getting the job done.

## **855 Military Police Company 11/22 - present: Intern, Administrative assistant**

- As a Cadet with 3 years of experience at the 855 Military Police Company, where I have honed leadership attributes, gained a strong understanding of chain-of-command operations, and developed skills in team coordination and personnel management. Serving directly under platoon leadership as an intern and administrative assistant, I gained practical experience in communication, organization, and adaptive problem-solving—skills that translate well to structured, team-driven engineering environments.

## **NAU Army ROTC 08/20 - present: Team Leader, Squad Leader, Mentor**

- "Progressing through all levels of NAU's Army ROTC program, from MS1 to MS4, while balancing an engineering degree and service in the National Guard, has reinforced my resilience, dedication, and ability to excel under pressure. In roles as Team Leader, Squad Leader, and Training Mentor, I developed and applied leadership, tactical planning, and presentation skills in complex, high-stakes environments. My experience has prepared me to work effectively within teams, manage challenging situations, and stay committed to mission success. This journey culminates in my upcoming commission as an officer in the National Guard, a testament to my commitment and perseverance."

## **Northern Arizona University 08/20 - 05/25 Bachelor's Mechanical Engineering - Academic Senior**

- Bachelor of Science in Mechanical Engineering with a Minor in Military Science. Comprehensive foundation in mechanical design, analysis, and manufacturing, with proficiency in CAD (SolidWorks), thermodynamics, and fluid mechanics. Military Science minor developed my leadership, teamwork, and project management skills, enhancing my ability to work effectively under pressure and lead in dynamic, collaborative environments. Prepared to bring a strong technical and strategic mindset to engineering roles.

## **Army Space Cadre Course 1 & 2 06/23 - 06/23**

- Achieved Space Cadre Certification by completing the Army Space Basic Cadre Courses 1 and 2 at West Point, a program designed to train personnel in military space operations. Over two weeks, I delved into complex topics such as orbital mechanics, space as an operational domain in Army doctrine, and satellite

signal and imagery applications in military strategy. The course culminated in writing a detailed Operation Order to demonstrate mastery of the material—requiring analytical rigor, strategic thinking, and a command of advanced technical concepts under challenging conditions. This experience has equipped me with specialized knowledge and resilience, assets I am ready to bring to an engineering role.

#### **855 MP Co: Organizational Tasks 01/23 - 02/24**

- Managed and organized comprehensive hand receipts for two platoons, consolidating inventory data for multiple weapon systems, gear, and sensitive items. This complex task required meticulous attention to detail and basic Excel skills to accurately document descriptions, locations, serial numbers, and NSNs into a single, streamlined spreadsheet. Successfully implemented an organized system that improved accountability and accessibility, demonstrating strong organizational and data management skills essential for any organization.

#### **Army Training operations 08/22 - 05/24**

- Developed and presented detailed Concept of Operations (CONOPs) and Operation Orders (OPORDs) for PT and tactical exercises in NAU Army ROTC, involving troop-to-task breakdowns, timelines, site imagery, and strategic objectives aligned with officer development goals. Presented plans to experienced Army cadre, who rigorously reviewed and challenged each aspect, often requiring revisions. This demanding process taught me humility, resilience, and the ability to thrive in high-pressure, iterative planning environments—skills I'm eager to apply in complex engineering projects.

#### **Army Basic Combat Training 06/21 - 08/21**

- Completed Basic Combat Training at Fort Leonard Wood in Bravo Company, 1st Battalion, 48th Infantry Regiment—a rare experience for cadets. Gained skills in high-pressure communication, land navigation, marksmanship, and tactical training, all while enduring daily physical challenges in a disciplined environment. This experience reinforced my adaptability and ability to perform under stress. These qualities that enhance my effectiveness in demanding roles.

#### **Pueblo Grande Volunteer Work 12/16 - present**

- Volunteer at S'edav Va'aki Museum (formerly Pueblo Grande Museum) for several years, supporting efforts to preserve and share Native American culture through art, food, music, pottery, and traditional dances. As a Native American, this experience has deepened my connection to my heritage and provided valuable insights into cultural preservation and community engagement. This role taught me the importance of dedication and cultural awareness, attributes I bring to collaborative work environments.
- Weightlifting: exercise builds discipline, resilience, and mental clarity—key qualities for tackling complex projects. Regular physical training promotes stress management, focus, and stamina. This helps to stay productive and perform well under pressure.
- Music: Producing music and playing saxophone enhance creativity, attention to detail, and patience, qualities that improve my problem-solving and focus at work. Mixing and mastering songs also build a critical ear for precision and the ability to iterate and refine, skills that translate well into delivering high-quality, meticulous work in any professional setting.