

DESMOND HERRING

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PROFESSIONAL SUMMARY

Dynamic professional with extensive experience in software development, team leadership, and technical instruction. Adept at designing, developing, and deploying scalable software solutions using industry best practices like Agile and Test-Driven Development. Proven leader with a history of managing and mentoring diverse teams, surpassing operational goals, and driving innovative solutions in high-pressure environments. Accomplished instructor skilled in curriculum development, group facilitation, and adapting complex technical concepts to meet diverse learning needs. Recognized for exceptional operational planning, risk management, and program optimization, with a strong commitment to delivering excellence across both technical and organizational objectives.

EDUCATION

Master of Science in Information Technology Software Engineering (December 2024)
University of Maryland University College, Adelphi, MD

Bachelor of Computer Science (May 2020)
University of Maryland University College, Adelphi, MD

Associate of Applied Science Unmanned Aerial Vehicle Flight Operator (May 2019)
Cochise College, Sierra Vista, AZ

SKILLS

- Programming Languages: Java, JavaScript, TypeScript, HTML, CSS, SQL, C++, C#, Flutter, Dart
- Database Management
- Spring Boot
- Leadership & Collaboration
- React
- Test-Driven Development
- Microsoft Suite Proficiency
- Curriculum Development
- Facilitation
- Problem Solving
- Operational Planning
- Troubleshooting
- Program Management
- Risk Management
- Group Instruction
- Tutoring
- Policy and Procedures
- Full Stack Development
- Agile Development
- Pair Programming
- Web Development
- Git
- Object-Oriented Programming
- Debugging

PROFESSIONAL EXPERIENCE

Software Development Engineer
Austin, TX

Army Software Factory, Army Futures Command
July 2024 – Present

Duties: In this position I design, develop, and deploy applications with a focus on high availability, low latency, and scalability. I work as a part of a balanced team to implement user stories and develop them into application features. We utilize industry practices such as test-driven development, eXtreme programming, and agile development principles.

- Completed the Software Factory's accredited technical accelerator with an A average.
- Assisted professors in aiding classmates' understanding of software development concepts using my previous knowledge and experience.
- Completed the Aviation Safety Officer Course, becoming OSHA 511 certified.
- Developed multiple full-stack applications utilizing multiple industry-standard languages and frameworks.

Unmanned Aircraft Systems (UAS) Operations Technician
Fort Drum, NY

10th Mountain Division
July 2022 – June 2024

Duties: I served as the aviation expert on all aspects of operations and ensured maximum readiness to conduct flight operations in support of my parent organization and the organizations we supported. I advised commanders at all levels on matters relating to unmanned aircraft, following the associated technical manuals, regulations, and federal laws. I provided direct supervision, instruction, and guidance on fleet infrastructure for flight operations, standardization, maintenance, and safety.

- Implemented efficient maintenance processes, enabling the maintenance section to complete over 3,000 maintenance actions totaling over 1,500 maintenance hours in just over a year.
- Hosted the first ever UAS Academy, providing instruction and training to organization leader's and staff on UAS limitations, procedures, and proper use/employment.
- Developed the curriculum for the UAS Academy.
- Supervised and refined the lesson plans of the various instructors conducting the training during the Academy.
- Built relationships within external organizations ensuring the completion of parts replacements despite Army-wide shortages.
- Let the team to continually exceed their flying hour projections, mishap-free, and surpass their training goals by 50%.

Instructor
Fort Huachuca, AZ

US Army Training and Doctrine Command
June 2018 – June 2022

Duties: I imparted technical and tactical knowledge on the fundamentals of flight and proper operation of an unmanned aircraft to students aged 18 to 35. I implemented instructional course materials and adapted those materials to each student's needs. Additionally, I ensured students understood the significance of becoming subject matter experts through education and future learning.

- Designated as a senior Army instructor due to my extensive experience and superior performance.
- Ensured students learned weekly classroom instructions on flight, weather, and information security.
- Completed 80 combined hours of instruction for CompTIA Security+ and Network+ training.
- Graduated from the TRADOC Cadre Training Course and the Army's Advanced Leadership Course.
- Graduated the Army's Advanced Leadership Course in the top 20% of his class with an average of 98%.
- Graduated from the Army's Common Faculty Development Instructor Course with an average of 97%.
- Conducted risk assessment and mitigation 5+ times each week for flights while serving as aircraft commander.

Standardization Instructor Operator
Vicenza, Italy

173rd Airborne Brigade Combat Team
June 2015 – June 2018

Duties: Analyzed and improved the organization's Standard Operating Procedures (SOP) to the Army's Department of Education and Standardization (DES) standards. Ensured all applicable Technical Manuals, Army Regulations, Department of Defense Publications, and Federal Aviation Administration Regulations were always up to date and in compliance with DES standards. Counseled peers and subordinates on job performance and training requirements. Participated in mission planning for flights conducted by the unit.

- Facilitated training for multinational exercises in countries including Germany, Spain, Latvia, and Ukraine with 0 aircraft mishaps or accidents while fortifying US relations with 7+ European countries.
- Trained Aircraft Commanders in aircraft safety, system limitations, emergency procedures, weather limitations, and basic instruction with one progressing to becoming an instructor.
- Conducted bi-monthly evaluations on at least 10% of the total assigned aircraft operators and maintainers.
- Implemented an improved evaluation program that satisfied the Aviation Resource Management Survey (ARMS) inspection criteria and developed the unit's Standardization program to improve its inspection score to 89%.
- Improved the organization's overall inspection score to 85%.
- Maintained flight and training records for 25 aircraft operators and maintenance personnel.
- Served as the unit hearing conservation program manager conducting annual hearing conservation training, maintaining audiology exam results for 25 personnel, and coordinating an annual hearing readiness survey.
- Served as Mission Briefing Officer on various multinational flights across Europe.
- As the unit's Primary Hazardous Materials Certifier, certified the transport and movement of vehicles, aircraft, fuel, and other associated materials to various

destinations throughout Europe. Ensuring each transport complied with the destination country's hazardous materials regulations.

Unmanned Aircraft Operator
Fort Bragg, NC

3rd Brigade 82nd Airborne Division
July 2010 – June 2015

Duties: I demonstrated excellent problem-solving ability by troubleshooting all systems associated with the unmanned aircraft system. Conducted site survey, selection, and equipment emplacement and displacement every month.

- Served as an Aircraft Commander for over 100 documented flight hours; Mission Coordinator for over 15 in-country training missions; and unit Communications Security Representative.
- Passed the Federal Aviation Administration (FAA) Laser Grade test for private pilots.
- Graduated from the Army Basic Leadership Course.