

Ms. Moen is an aviation accident investigator at Engineering Systems, Inc. (ESi). She specializes in helicopter piloting and operations as well as parachute operations. Ms. Moen served 14 years as an officer in the U.S. Army, including three tours as a combat helicopter pilot in the AH-64D as well as flight time in the Bell 206. She led multiple mission-critical response efforts, including aircraft search-and-rescue operations, joint multinational training exercises, and combat aviation operations. She has over 1,100 flight hours, including combat, Pilot Night Vision System Forward Looking Infra-Red (FLIR), and Night Vision Goggle (NVG) time.

Ms. Moen also has significant civilian aviation experience. She is an FAA Rotary Wing Commercial and Instrument Pilot. She has fixed-wing experience in Cessna 172/182, as well as Piper Arrow/Camanche, and PAC 750. Currently, Ms. Moen holds a commercial and instrument pilot FAA rating for rotary wing and a commercial rating for single-engine and multi-engine aircraft. She has experience as a pilot for parachute operations. In addition to pilot expertise, she is a United States Parachute Association Acceleration Freefall Instructor and has 1,300 jumps (military and civilian).

As Squadron Executive Officer, Ms. Moen served as the Chief of Staff and second-in-command for 24 AH-64D Attack Helicopters and provided direct oversight of aircraft maintenance, flight operations, training, and risk assessment in accordance with Department of Defense, International Civil Aviation Organization (ICAO), and Federal Aviation Administration (FAA) regulations. Her titles include AH-64D Squadron Executive Officer, Division, Special Operations Unit Air Operations Officer, Initial Investigation Officer, and Platoon and Company Commands. During her Army career, Ms. Moen earned certifications in Joint Air Firepower, High Altitude Mountain Environmental Training Strategy, Helicopter Overwater Survival, and Modular Egress Systems, as well as qualifications in multiple small arms.

Ms. Moen possesses significant hands-on experience in aviation management and operations with an emphasis on high-risk training management and complex problem-solving, and has participated in accident investigations involving aircraft and

Contact Information

amoen@engsys.com

(678) 990-3280

ESi Atlanta

430 Technology Parkway NW
Peachtree Corners, GA 30092

Areas of Specialization

- Army and Department of Defense Operations
- Aviation Accident Reconstruction
- Helicopter Pilot Expertise
- Helicopter Operations
- Forward Looking Infra-Red
- Night Vision System (NVG) Operations
- Parachute Operations
- Government Sector
- Defense Industry Support
- Safety
- Aviation

transportation. Her experiences include Aviation Operations Management and joint and multinational training. She is skilled at navigating complex regulatory and compliance requirements and has conducted risk assessments and audits of policies and procedures. Additionally, Ms. Moen has managed complex supply chain logistics in austere environments, aircraft movement via ship to over six countries, flying and operating aerial fires and missions under ICAO requirements, equipment maintenance, and aerial and personnel delivery.

Education

PhD, Aviation. Liberty University. (In progress, 27 credits completed)

MS, Administration in Leadership. Central Michigan University. 2016

BS, Sociology. George Mason University. 2005

Licenses & Certifications

- AH-64D Rated Pilot
 - FAA Multi-Engine Airplane (Land) Commercial
 - FAA Rotary Wing Commercial – FAA Rotary Wing Instrument – FAA Single Engine Plane (Land) Commercial
 - Project Management Professional
 - United States Parachute Association Accelerated Freefall Instructor
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Positions Held

Engineering Systems Inc., Peachtree Corners, GA

- Senior Staff Consultant, 2023 – Present

Flying River LLC, Austin, TX

- Independent Aviation Consultant, 2020 – 2023

Amazon LLC, Memphis, TN

- Outbound Operations Manager, 2019 – 2020

U.S. Army

- AH-64D Squadron Executive Officer, 2nd Squadron, 6th Cavalry Regiment, Wheeler Army Airfield, Hawaii, 2018 – 2019
 - UH-60M Battalion Operations Officer, 2nd Battalion, 25th Combat Aviation Brigade, 2017 – 2018
 - Division Air Operations Officer, 25th Infantry Division, 2016 – 2017
 - Air Operations Officer, Special Mission Unit, July 2014 – 2015
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- Aide-de-Camp RADL Colin Kilrain, Joint Special Operations Command, Fort Bragg, January 2014 – July 2014
- Air Operations Officer, Special Mission Unit, 2012 – January 2014
- Commander, Headquarters and Headquarters Company, 1st Attack Reconnaissance Battalion, 82nd Combat Aviation Brigade, Fort Bragg, 2010 – 2012
- Platoon Leader, B Co, 1st Attack Reconnaissance Battalion, 82nd Combat Aviation Brigade, Fort Bragg, 2008 – 2010
- Flight School Student, 2006 – 2008
- Platoon Leader, C Co. 122 Aviation Support Battalion, Fort Bragg, 2005 – 2006

Continuing Education

- **Basic Rotorcraft Accident Investigation Course** – Transportation Safety Institute, U.S. Department of Transportation
- **Legal and Regulatory Issues in Unmanned Systems** – Embry-Riddle

Professional Affiliations/Honors

- Air Medal with “V” Device
- Joint Meritorious Service Medal
- Order of Saint Michael (Bronze)
- Omega Nu Lambda National Honor Society, Alpha Chapter, March 2026

Project Experience

Investigations

- Accident investigator for Boeing AH-64E Apache attack helicopter accident involving analysis of flight controls, Pilot Night Vision System (PNVS), onboard data tracking systems, pilot actions, and regulations.

Publications

“Accuracy of Flight Parameters Calculated from Radar and Automated Dependent Surveillance-Broadcast (ADS-B) Data”, T.P. Jung, K.M. Greene, K.R. Thobe, M.K. Bauer, **A. Moen**, American Institute of Aeronautics and Astronautics, SciTech Forum, AIAA-2025-1623, 2025.

Presentations

“Leading an Interdisciplinary Team from Crash to Courtroom,” **A. Moen**, DRI Product Liability Conference, San Antonio, TX., February 18, 2026.