

MAHMOUD AL-TAMIMI

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SUMMARY OF SKILLS QUALIFICATIONS

- **Master's Degree in Numerical Simulation in Engineering**
- **Meng. Degree in Mechanical Engineering.**
- **BSc. Degree in Aeronautical Engineering.**
- **+3.5 years of aerospace experience**, including roles as **Airworthiness Engineer** and **Mechanical Engineer**.
- Experienced in **Static Stress Analysis (Hand Calculations)** and **Finite Element Modelling** using **FEMAP/NASTRAN** and **ANSYS**.
- **NASGRO® Training** from Southwest Research Institute (SwRI).
- Certified **Quality Systems Auditor (QSA)**, **Advanced Quality Systems Auditor (AQSA)**, **Corrective Action Plans (CAP)**, and **Canadian Aviation Regulations (CARs)**.
- Fundamental knowledge in aircraft's design, modelling, aerodynamics, materials, propulsion, composite materials, structures, performance, stability, and control.
- **Member of PEGNL as Engineer in Training.**
- **Canadian Citizen**, willing to **relocate** for the right opportunity.

RELEVANT WORK EXPERIENCE

Airbus Canada QC, Canada
Engineering Professional, Airworthiness December 2025 – Present

- Perform continued operational safety and risk assessments on in-service and production aircraft events.
- Investigate failures and determine airworthiness impact using engineering and fleet data.
- Manage corrective actions and regulatory compliance (TCCA).
- Coordinate with RMAS, engineering, and TCCA on airworthiness investigations and corrective actions.
- Coordinate resolutions with design engineering, suppliers, and certification authorities.
- Review service difficulty reports and support fleet safety mitigations.
- Support service bulletins, operational limitations, and safety review boards.

PAL Aerospace ON, Canada
Mechanical Engineer January 2024 – December 2025

- Conducted static stress analysis using both hand calculations and Finite Element Modelling (FEMAP/NASTRAN).
- Documented airworthiness substantiation for TCCA, EASA, FAA.
- Utilized Python coding skills in load monitoring projects.
- Developed in-house Python tools to standardize analysis, including arbitrary section property calculations.

ARAB WINGS COMPANY Jordan
Airworthiness Engineer December 2016 - June 2018

- Assessed Service Bulletins (SBs), Airworthiness Directives (ADs) and various maintenance tasks on the aircraft.
- Produced Customized Maintenance Program (CMP), Minimum Equipment List (MEL), and annual Maintenance Forecasts.
- Completed monthly Reliability Control reports for the fleet.

EDUCATION

THE TECHNICAL UNIVERSITY OF MADRID Madrid, Spain
Numerical Simulation in Engineering with Ansys – Remote February 2026-Present

MEMORIAL UNIVERSITY OF NEWFOUNDLAND Canada
Master of Engineering in Mechanical Engineering (GPA: 4.00/4.00) October 2020

JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY Jordan
Bachelor of Science in Aeronautical Engineering (GPA: 3.79/4.00) October 2016
Verified International Academic Qualifications by World Education Services

TECHNICAL SKILLS

- **Stress Analysis Expertise:** Proficient in analytical static stress analysis and Finite Element Modelling (FEM) using FEMAP/NASTRAN and ANSYS. Skilled in performing detailed hand calculations to validate FEA results and ensure compliance with engineering standards.
- **Damage tolerance & fatigue** crack growth analysis using **NASGRO®** (SwRI training scheduled, April 2026).
- **Engineering Design:** Proficient in 3D modeling, assembly creation, technical drafting, surface modeling, and motion simulation using SolidWorks.
- **Airworthiness Substantiation:** Strong experience in regulatory compliance and documentation for TCCA, EASA, and FAA, including stress substantiation reports.
- **Quality Assurance & Auditing:** Certified in Quality Systems Auditor (QSA), Advanced Quality Systems Auditor (AQSA), and Corrective Action Plans (CAP), with expertise in audit preparation, non-conformity analysis, and corrective action planning.
- **Regulatory Knowledge:** In-depth knowledge of Canadian Aviation Regulations (CARs), including Repair Design Approvals, Part Design Approvals, Supplemental Type Certificates, and regulations for Manufacturers.

LICENSES & CERTIFICATIONS

- **NASGRO® Fatigue & Fracture Mechanics Training**, *Southwest Research Institute* (Apr 2026)
Five-day advanced training in fatigue crack growth and damage tolerance using NASGRO®, covering material modeling (NASFLA/NASMAT), load spectra, temperature effects, load interaction models, and failure assessment methods. Includes hands-on analysis of small cracks, residual stress, shakedown behavior, and tabular da/dN data with practical case studies.
- **Canadian Aviation Regulations (CARs)**, *Canadian Council for Aviation & Aerospace (CCAA)* (Oct 2023)
Covered Repair Design Approvals, Part Design Approvals, Supplemental Type Certificates, and regulations for Manufacturers.
- **Quality Systems Auditor (QSA)**, *Canadian Council for Aviation & Aerospace (CCAA)* (Jul 2024)
Covered audit preparation (gap analysis, checklist preparation, sampling theory, scheduling), on-site activities (briefings, communication, interviewing, observing, record auditing), report writing (findings, evidence, follow-up), and supporting Corrective Action Plans.
- **Corrective Action Plans (CAP)**, *Canadian Council for Aviation & Aerospace (CCAA)* (Jul 2024)
Covered management systems basics, Quality Assurance fundamentals, and identifying valid findings. It included short-term corrective actions, Root Cause Analysis (5 Why's, Ishikawa Diagrams, Cause and Effect), long-term preventive action, and reviewing Transport Canada's CAP Form, emphasizing regulatory expectations. This course enhances proficiency in developing effective corrective and preventive actions within aviation quality management.
- **Advanced Quality Systems Auditor (AQSA)**, *Canadian Council for Aviation & Aerospace (CCAA)* (Jul 2024)
Covered essential topics such as Quality Assurance fundamentals, audit preparation (including planning, scheduling, and checklist development), and on-site activities (including entry and exit meetings, records review, and interview techniques). The course also emphasized the development of findings, corrective action plan reviews, and audit close-out activities.
- **A220 PW1500G General Familiarization**, *Trans Global Training Ltd., England* (Aug 2024)
Covered technical overview of all aircraft systems, including mechanical and avionics systems. Designed to meet ATA 104 Level 1 and EASA Part 66 Level 1 knowledge levels.
- **EASA Part 147**, *IKAROS Aviation Training Center, Cyprus* (Aug 2024)
This certification ensures the "AIRBUS A220 SERIES WITH PW1500G POWERPLANT General Familiarization" course complies with EASA, UK CAA, and FAA regulations, providing comprehensive knowledge of all aircraft systems including airframe, engine, electrical, and avionics.
- **Professional Engineers and Geoscientists of Newfoundland & Labrador (PEGNL)**, *Canada* (Apr 2022)
Engineer in Training.