Amro Alkhatib

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Uncrewed and Autonomous Systems senior at Embry-Riddle Aeronautical University (4.0 GPA, accelerated B.S./M.S.; B.S. expected December 2026, M.S. expected May 2027), seeking internships and roles in UAS and autonomy, counter-UAS, systems engineering, or flight test. Sole inventor on a U.S. provisional patent (No. 63/978,409) for a passive counter-UAS detection concept, FAA Part 107 remote pilot, and member of an ERAU team competing in NASA's 2027 Gateways to Blue Skies challenge. Brings 15+ years of engineering design, project coordination, and stakeholder management in the United States and the Gulf. Bilingual in English and Arabic.

TECHNICAL SKILLS

- **Counter-UAS and Sensing:** C-UAS concepts, passive detection, sensor systems and data interpretation, remote sensing, thermal/RGB and radiometric payloads
- **UAS Operations:** FAA Part 107 mission planning, risk assessment, airspace and aviation regulations, flight safety, NDAA and Blue UAS compliance awareness
- **Systems Engineering:** requirements analysis, systems integration, verification and validation (coursework), total-system design, multidisciplinary coordination, AI/ML foundations
- **AI and Software:** generative AI, machine learning fundamentals, Python, HTML/CSS/JavaScript (Google and IBM certifications, 2025 to 2026)
- **Tools:** Oracle Primavera P6, Autodesk Revit, Navisworks, AutoCAD, 3ds Max, V-Ray
- **Languages:** Arabic (native), English (full professional)

EDUCATION

Master of Science in Uncrewed and Autonomous Systems expected graduation May 2027
Embry-Riddle Aeronautical University, Worldwide Campus

Bachelor of Science in Uncrewed and Autonomous Systems expected graduation December 2026
Minor in sUAS
Embry-Riddle Aeronautical University, Worldwide Campus
GPA: 4.0 (Dean's List); Spirit Award for Outstanding Academic Achievement (College of Aviation and Student Government Association), ERAU Worldwide, 2025
Related Coursework: UAS Operations, Applied Physics for Uncrewed Systems, Sensing Technology, Uncrewed Ground and Maritime Systems, Operational Environments, Human Factors

Bachelor of Science in Architectural Studies expected graduation 2027
Arizona State University, Herberger Institute, Tempe, AZ

Associate of Applied Science, Civil Engineering Technology Aug 1998 - Jun 2000
Engineering Technical Institute, Damascus, Syria

CERTIFICATIONS, PATENT, HONORS AND MEMBERSHIPS

- FAA Part 107 Remote Pilot Certificate No. 5143066 (Licensed Commercial sUAS Operator), Federal Aviation Administration, 2025
- U.S. Provisional Patent No. 63/978,409, Distributed Passive Sensor Network (DPSN), a passive counter-UAS detection concept; sole inventor. Foreign Filing License granted March 2, 2026; concept supported by letters of recommendation from four ERAU faculty members
- Google AI Specialization, 5 courses (Google, 2025); IBM AI and Software Engineering suite: Generative AI, Prompt Engineering, Software Engineering, HTML/CSS/JavaScript (IBM, 2025 to 2026)
- Primavera P6 Project Management (25 hrs) and PMP Exam Preparation (35 PDUs), Qatar, 2012
- LEED Green Associate and AP BD+C Exam Preparation (30 hrs, 25 PDUs), Qatar, 2014
- Order of the Sword & Shield National Honor Society (Intelligence, National Security and Homeland Security), inducted May 2026
- AUVSI (Association for Uncrewed Vehicle Systems International), California Chapter, member; invited participant, AUVSI California Taiwan Manufacturing Delegation, June 2026
- ERAU Research Scholars Program; Syrian American Academic Society (SAAS), member

RESEARCH AND PROJECTS

Embry-Riddle Aeronautical University, Worldwide Campus 2024 - Present

- **NASA Gateways to Blue Skies 2027 (InfraAir: Aviation for Infrastructure Inspection):** invited by ERAU onto a six-member master's team; proposed the team's concept, a small UAS that inspects GPS-denied spaces such as bridge undersides and tunnel interiors using visual, thermal, and lidar sensing, with onboard AI that flags defects
- **Distributed Passive Sensor Network (DPSN):** developed a passive, RF-silent counter-drone detection concept for protecting high-value assets from low-cost micro-UAS, built through four ERAU research studies; basis of the provisional patent (early-stage concept)
- **SFO Airport Security Review (SCTY 400):** assessed physical and perimeter security for San Francisco International Airport (Category X) and applied the DPSN passive-sensor concept to its exposed bay-water fence line to detect early-stage intrusions
- **Wildfire Detection and Monitoring UAS:** designed a Part 107-compliant UAS concept with thermal and RGB sensing on FLIR radiometric payloads (NDAA and Blue UAS compliant) for active-perimeter mapping and incident awareness
- **ISR Platform Statistical Analysis (DroneSTAT):** analyzed five ISR uncrewed aircraft in a comparative performance study, delivered as a platform-selection framework
- **Rainforest Deforestation UAS (ENCODE, team capstone):** developed a full total-system design supplying ground-truth to fine-tune satellite data

PROFESSIONAL EXPERIENCE

Damasca Autos LLC, San Francisco, CA Nov 2019 - Present

Principal and Managing Director

- Founded and operate an automotive trading and financing company serving retail and wholesale clients
- Direct daily operations, regulatory compliance, and financial planning across sourcing, financing, and sales
- Apply systems-engineering and process-optimization methods to streamline procurement, reconditioning, and delivery
- Negotiate lender, vendor, and dealer agreements and manage DMV and lending compliance
- Build and lead the team while completing an accelerated engineering degree

Relocation and Transition, Qatar to United States Jul 2017 - Nov 2019

- Relocated to the United States, established residency in California, and founded Damasca Autos LLC

Power International Holding, Doha, Qatar Jul 2014 - Jun 2017

Group Senior Public Relations Manager

- Directed corporate communications and government affairs for one of Qatar’s premier conglomerates
- Served as primary liaison for VIP delegations and government ministries, ensuring protocol for high-level summits
- Managed large-scale corporate events and executive communications
- Coordinated cross-functional teams across marketing, public relations, and executive offices
- Directed protocol for national development summits and high-profile events supporting Qatar National Vision 2030

UCC Holding (UrbaCon Trading and Contracting), Doha, Qatar Mar 2011 - Jul 2014

Projects Design Coordinator

- Coordinated architectural design and BIM delivery across flagship megaprojects, including Mall of Qatar and the Sheraton Doha renovation
- Integrated multidisciplinary models in Revit and Navisworks for technical coordination across design disciplines
- Led cross-functional architect and engineer teams, aligning design, schedule, and stakeholder requirements on large-scale infrastructure

Khayyat Contracting and Trading (KCT), Damascus, Syria Sep 2008 - Mar 2011

Lead Design Engineer

- Directed technical documentation and 3D visualization for luxury commercial and hospitality developments using Autodesk 3ds Max and V-Ray
- Managed a design team producing investment-grade presentations and construction documentation for international stakeholders

German Qatari Group, Doha, Qatar 2006 - 2008

Project Engineer, Interior Design

- Delivered interior engineering across high-profile projects: City Center expansion (Al Habtoor Group), Shangri-La Hotel Doha, Rotana City Center, and Merweb Hotel
- Managed site engineering, design compliance, and fit-out execution from concept through handover

Albander Interiors, Al Khobar, Saudi Arabia 2004 - 2006

Junior Design Engineer

- Prepared design drawings, material take-offs, and shop documentation for interior fit-out and joinery projects
- Supported senior engineers from concept design through site installation