

# Ali R. Kassem

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## Professional Summary

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Results-driven Mechanical Engineer with 6+ years of academic and practical experience in mechanical and MEP systems. Proven track record in HVAC, plumbing, fire protection, CAD design, and fieldwork. Strong background in technical reporting, site supervision, and engineering project coordination. Known for delivering high-quality work under pressure, leading teams, and maintaining compliance with industry standards. Passionate about continuous improvement, precision, and solving real-world engineering challenges.

## Projects

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### Engineering:

- Designed mechanical systems using AutoCAD and Revit MEP, including HVAC duct layouts and pipe routing.
- Conducted HVAC load calculations using industry-standard methods to size air handling units and ductwork.
- Coordinated 2D/3D layout designs in team projects, integrating architectural and structural constraints.
- Performed thermodynamics and heat transfer simulations using MATLAB and Excel to support lab-based testing.
- Troubleshoot mechanical lab setups and participated in maintenance of student project equipment.

### Others:

- Inkind humanitarian relieve NGO with the UNICEF & WFP.
- AUB & Ministry of Health research to diagnose and assist people in villages.
- Student Health Assessment to aid in humanitarian relief with the UNICEF, WFP, IOCC, and Ministry of Education

## Education

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- Masters of Engineering in Mechanical Engineering**  
Lebanese International University, Beirut, Lebanon  
2018 – 2024
- Lebanese Baccalaureate – Life Sciences**  
Gebran Andraos Tueni Public High School, Beirut, Lebanon  
2015 – 2016

## Core Competencies

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### Engineering & Technical:

- MEP Design & Site Coordination:** HVAC, Fire Protection, Plumbing Systems
- Software Proficiency:** AutoCAD, Revit MEP, SolidWorks, LTSpice, MATLAB
- Data & Office Tools:** Microsoft Excel, Word, PowerPoint, Data Entry
- Other:** Time Management, Multitasking, Public Speaking, Team Leadership
- ASHRAE & ISO Standards | Technical Documentation

## Professional Experience

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### Site Mechanical Engineer

MR Contracting, Beirut, Lebanon

Sep 2024 – Present

- Supervise installation and inspection of HVAC, plumbing, and fire protection systems for commercial and residential sites.
- Prepare daily and weekly progress reports for project managers and stakeholders.
- Conduct quality assurance checks and ensure compliance with project specifications and safety standards.
- Attend site meetings, coordinate with subcontractors, and resolve technical issues to avoid project delays.
- Support procurement of materials and verify deliveries against project requirements.

## Field Mechanical Engineer (Internship)

Al Bani Engineering, Beirut, Lebanon

*Jul 2024 – Sep 2024*

- Assisted engineers on-site with ducting, piping, and mechanical system layout implementation for the Sama Residential and City Tower projects.
- Reviewed engineering drawings, ensured field execution matched approved designs, and reported discrepancies.
- Participated in MEP coordination meetings and gained exposure to installation sequencing and inspections.
- Supported BOQ verification and tracking of materials delivered to site.

## Team Leader

IPSOS, Beirut, Lebanon

*Mar 2021 – Nov 2024*

- Managed and trained teams for large-scale field operations across Lebanon, ensuring data integrity and adherence to international project guidelines.
- Oversaw project deliverables and collaborated with supervisors to streamline survey logistics and field schedules.
- Provided technical guidance during data collection and performed troubleshooting when challenges arose on-site.
- Participated in technical data collection for environmental and infrastructural assessments.
- Conducted door-to-door interviews, completed structured reports, and supported mapping and analysis of community resource access.

## Certifications

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- Revit MEP Certification | *May 2025*
- Fire Protection System Design Certificate | *Apr 2025*
- MEP Engineering Certification | *Sept 2024*

## Languages

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- **Arabic:** Native Proficiency
- **English:** Fluent Proficiency

## Interests

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- MEP design and drafting, mechanical systems innovation
- Photography, reading technical journals, team sports
- Continuous learning in construction and energy systems