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## Eslam Mohamed Ahmed Akosh

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### Professional Summary

Mechanical Engineer (MEP) with **4+ years of experience in HVAC design, Firefighting & Plumbing site supervision, and MEP coordination** across Dubai, Egypt, and KSA. Skilled in **district cooling plant supervision, HVAC load calculations (HAP), shop drawing review, and installation & commissioning**. Proven ability to deliver **efficient, sustainable, and code-compliant MEP solutions** in district cooling, healthcare, commercial, hospitality, and defense projects.

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### Core Competencies

- HVAC Design (VRV, Chillers, DX, Hydronic Systems)
  - Chilled Water Plant Supervision (Pumps, PHEX, Piping Networks)
  - Firefighting System Supervision (Sprinklers, Hydrants, Pumps, FM-200, Clean Agent)
  - Plumbing & Drainage Systems (Water Supply, Drainage, Pump Sizing)
  - Cooling & Heating Load Calculations (HAP) | Pump Head | Static Pressure
  - Shop Drawing Review & Approval | Technical Submittals | BOQs
  - Installation, Testing & Commissioning (HVAC, Firefighting, Plumbing, CHW Plants)
  - MEP Coordination with Civil & Architectural Teams
  - Dubai Municipality & DCD Submission Procedures
  - Standards: **ASHRAE, SMACNA, NFPA, IPC**
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### Professional Experience

#### Mechanical Site Engineer

Allied Consultants Ltd., Dubai | Sep 2024 – Present

- Supervise **chilled water plants, HVAC, Firefighting, and Plumbing systems** from installation to commissioning.

- Ensure compliance with **ASHRAE, SMACNA, NFPA, IPC, and Dubai Municipality codes.**
- Review & approve shop drawings, material submittals, MIRs & WIRs.
- Prepare technical reports and track project progress to prevent delays.

### **Mechanical Design Engineer**

*Allied Consultants Ltd., Cairo | Feb 2021 – Sep 2024*

- Designed **HVAC systems** (concept → tender) for residential, commercial, and healthcare facilities.
  - Performed **cooling & heating load calculations** using HAP.
  - Prepared BOQs, specifications, and reviewed contractor submissions.
  - Coordinated with architects and civil teams to resolve design clashes.
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### **Key Projects**

#### **District Cooling Plants – Dubai (2024–2025)**

- **Dubai Hills Estate DCH-DCP**
  - Supervised **chilled water plant, HVAC, Firefighting, and Plumbing systems** from installation to commissioning.
  - Ensured compliance with ASHRAE, SMACNA, NFPA, IPC, and Dubai Municipality standards.
  - Reviewed shop drawings, technical submittals, MIRs, and WIRs for approval.
  - Coordinated with contractors and consultants for QA/QC compliance.
- **Jumeirah Beach Residence – JBR**
  - Oversaw supervision of **chilled water plant, HVAC, Firefighting, and Plumbing systems.**
  - Monitored commissioning procedures and verified test reports for system readiness.
  - Reviewed technical documentation and shop drawings before approvals.
- **Jumeirah Beach Hills – JBH**
  - Supervised site execution of **chilled water plant, HVAC, Firefighting, and Plumbing systems.**

- Verified material installation against approved submittals (MIRs/WIRs).
- Reported progress, highlighted delays, and ensured compliance with design standards.

### **Healthcare Projects – Egypt (2023–2024)**

- **Kasr Al Ainy Hospital Renovation (Renal Dialysis & Catheterization Buildings)**
  - Designed HVAC systems to meet **medical air quality standards** and energy efficiency targets.

### **Commercial & Hospitality Projects – UAE & Egypt (2021–2024)**

- **Al Alamein Hotel Renovation (2024):** Full MEP design review for renovation scope.
- **EMPOWER HQ Office – Dubai (2024):** Concept to tender-phase MEP design enhancements.
- **Raville Tower – Egypt (2024):** HVAC system design for high-rise residential/commercial tower.
- **Royal House Hypermarket – Egypt (2021):** Full HVAC design from concept to tender.
- **Daltex Office – The Gate Plaza (2021):** VRV system design for 65 TR capacity.
- **Ramses Hilton – Egypt (2022):** Oversight of fire & life safety systems for public areas.

### **Defense Projects – Saudi Arabia (2021–2022)**

- **King Salman Air Base – KSA**
  - Designed **DX & chiller-based HVAC systems** for detention & medical buildings.
  - Coordinated site-level installation of firefighting & plumbing services.

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### **Education**

#### **B.Sc. Mechanical Engineering – Mechanical Power**

Minia University, Egypt – 2021

Graduation Project: HVAC System Design – **Excellent Grade**

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### **Certifications & Training**

- Fundamentals of Project Management
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## **Software & Tools**

- **HAP (Carrier E20)** – HVAC Load Calculations
  - **AutoCAD 2D / AutoCAD MEP** – Drafting & Coordination
  - **Revit MEP** – Drafting & Clash Detection
  - **Elite Fire** – Firefighting Hydraulic Calculations
  - **Microsoft Office Suite** – Reports, BOQs, Documentation
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## **Languages**

- Arabic – Native
  - English – Very Good (Written & Spoken)
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## **Soft Skills**

Leadership | Client Communication | Problem-Solving | Time Management | Adaptability

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