

Yunus Emre Mert, PMP®

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PROFESSIONAL SUMMARY

Mechanical Engineer with experience in construction projects, MEP systems, site execution, and manufacturing. Currently focused on heavy equipment operations, maintenance, and procurement on the NEOM project, ensuring reliable performance, HSE and quality compliance, and effective asset management. With a software background, I continuously apply technical knowledge to enhance processes and deliver value across projects.

EXPERIENCE

Mechanical Engineer (Plant & Equipment)

Al-Ayuni Limak Contracting Company

2024 – 2026

NEOM | Trojena TBM Tunnels, Mirage Freight Depot & Vault Excavation

Project Budget: USD 1.2 Billion

- **Oversaw** daily activities of a **100+** person maintenance crew, including **10** engineers and **5** supervisors, responsible for the safe and continuous operation of over **500** units of plant and equipment on site.
- **Developed** a custom **Equipment Management System** that integrated asset tracking, job card logging, preventive maintenance tracking, safety documentation, spare parts inventory and workforce allocation improving operational visibility and **reducing administrative workload**.
- **Managed purchase requests** and **material movements** through **Oracle Fusion ERP** and **Microsoft Dynamics AX**, coordinating with warehouse staff, internal teams and suppliers to maintain optimal stock levels, reduce lead times, and prevent critical shortages.
- **Maintained high equipment availability** by coordinating daily plant operations, resolving time-critical failures, and aligning maintenance activities with construction schedules.
- **Supported TBM operations** on site and was involved in spare parts planning, identification, and ordering activities.

Lead Design Engineer (MEP)

Ucay Engineering & Contracting Company

2023 – 2024, Antalya, Türkiye

Koc Holding | Divan Talya 5-Star Hotel Project

Project Budget: USD 115 Million

- **Delivered** detailed MEP shop drawings and execution plans for **plumbing, HVAC, and fire protection** systems for the Divan Hotel project.
- **Supported** procurement activities by **collaborating with purchasing teams**, monitoring material deliveries and aligning site needs with supply schedules.
- **Supervised on-site mechanical installations**, ensuring adherence to approved drawings, technical specifications and quality benchmarks.
- **Utilized SolidWorks for 3D modeling** of rooftop ductwork systems and conducted wind load simulations to validate structural performance and design feasibility.
- **Reviewed** mechanical installations on site to verify compliance with approved shop drawings, specifications, and quality standards, issuing corrective guidance where required.

Mechanical Engineer (MEP)

Profcold Cooling Solutions

2020 – 2023, Antalya, Türkiye

- **Led feasibility studies**, cost estimation, and execution planning for **HVAC and mechanical utility installations** in large-scale hospitality and healthcare projects.
- **Supported contract negotiations** and managed international HVAC and cold storage projects in Germany, Ethiopia and West Africa including UPS MARKEN Warehouse (Frankfurt), Allpack Warehouse (Hannover), Addis Ababa University Lab Project and a fish processing facility in Burkina Faso.
- **Used SolidWorks** and Unreal Engine to visualize mechanical systems, improving client decision-making and reducing design revisions.
- **Prepared** mechanical layouts and installation **shop drawings** using **AutoCAD**.
- **Supervised in-house manufacturing** of condenser and evaporator units, overseeing assembly quality, dimensional accuracy and compliance with technical drawings, while coordinating inspections and corrective actions to meet project specifications.

EDUCATION

Master of Business Administration

Arel University • <https://international.arel.edu.tr/>

2022 – Present, Istanbul, Turkiye

Bachelor of Mechanical Engineering

Akdeniz University • <https://www.akdeniz.edu.tr/en>

2016 – 2020, Antalya, Turkiye

LANGUAGE

Turkish - Native

English - Professional Working Proficiency

Arabic - Basic Communication

CERTIFICATIONS

- **Project Management Professional (PMP)®**

Project Management Institute • 2026

- **Train the Trainer for Defensive Driving**

OSH Awards UK Limited • 2025

- **International Trading**

udemy • 2023

- **Trojena Supervising Safely (Black Hat) Course**

NEOM • 2025

- **Tunneling Safety Training Scheme**

CITB • 2024

- **MSC Adams**

Bias Engineering • 2020

LICENCES & TRAINING

- **Excavator Operator**

Astron Arabia • 2024

- **First Aid Training**

Falez OSGB • 2020

- **Drivers Licence (B, B1, D1, F, M)**

Turkiye • 2016

- **Bulldozer Operator**

Astron Arabia • 2024

- **Grader Operator**

Astron Arabia • 2024

- **Telehandler Operator**

Astron Arabia • 2024

SKILLS

CAD & Simulation: SolidWorks • AutoCAD • MSC Adams • Revit

ERP & Data Tools: Oracle Fusion Cloud • Microsoft Dyanmics AX • Microsoft SQL • NETSIS • Microsoft Office

Software & Scripting: Javascript • C# • MySQL • HTML • CSS

3D Modelling: 3DS Max • SketchUp

3D Rendering: Vray • Unreal Engine • D5 Render

PROJECTS

Boeing 737-800 NG Home Cockpit Simulator

Akdeniz University Personal Project • January 2019 - July 2020

- Designed and built a home cockpit simulator parts of the Boeing 737-800NG, including custom fabrication of MCP panel, dual yoke, EFIS panel, throttle quadrant and fire suppression panel.
- Developed and implemented a customized software interface to integrate physical controls with X-Plane, enabling realistic hardware-software interaction for flight simulation.

CANSAT Rocket Competition

Akdeniz University GRIFON Team • cansatcompetition.com/ • December 2019 - March 2020

- Participated in the AAS Student Design-Build-Launch Competition, advancing to the third stage with a 92.8/100 score; contributed to the end-to-end development of a foldable delta-wing body, including SolidWorks-based 3D modeling and design integration, showcasing strong teamwork and multidisciplinary engineering skills.
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