

## Ahmet Furkan Kayhan

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### About

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I am a civil engineering graduate with experience in both the site and the technical office aspects of the field and I am driven to learn more about the magnificent details of the work. I have worked on various projects with people from different backgrounds from different parts of the world and have always been fascinated by the vastness of the civil engineering applications and with my strong academic background and ability to adapt to dynamic work conditions, I wish to extend my knowledge working with experts in my field.

### Education

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#### **Middle East Technical University, MSc. Civil Engineering, Geotechnics Department**

2024-Present

**Relevant Courses:** Geotechnical Earthquake Engineering, Applications of Geosynthetics, Adv. Soil Mechanics

#### **Middle East Technical University, BSc. Civil Engineering, GPA: 2.88**

2017-2023

**Relevant Courses:** Const. Cost Estimation Control, Ground Improvement, Earthquake Engineering, Coastal Engineering and Harbor Design, Building Information Modeling (BIM)

#### **Accomplishments**

- CE481 Reinforced Concrete Structures Project: Initiated a FEM project for Shear Wall Design focused on earthquake engineering, aligning with the TBDY and Eurocode 8.
- CE410 Final Project: Designed a drinking water pipeline system for a water-scarce province in Cyprus with strong emphasis on CAD-based design and BIM applications.

### Professional Experience

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#### **TANAP Natural Gas Transmission Company**

June 2024 - Present

##### **Geotechnical Engineer**

- Geotechnical and Geohazard assessments
- Conduct on-site surveys of constructions, potential hazard sites, and attend to laboratory studies.
- Created PSHA study for Erzurum region and checked for liquefaction potential of the site and created Limit State spreadsheets based on CSA Z662 for geotechnical loads on pipes.

#### **Stadia Engineering Structural Engineer, Ankara**

April - June 2024

##### **Civil Engineer**

## TEİAŞ-METU Project, Ankara

July

2023 – February 2024

*Project Name: Determining the Risks of Energy Transmission Facilities Against Natural Events*

### Civil Engineer | Data Analyst

- Survey main gridlines and switchyards for earthquakes, landslides, rockslides, floods, wildfire, bird migration paths, etc.
- Conduct on-site examinations of high-risk transmission towers to assess structural conditions.
- Created automation scripts with Python utilizing Excel and MySQL to reduce manual work and reduced time spent on formal work by half.

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### Additional Experience

#### Trading Tree

##### Full-Stack Developer

In this project I have worked with a team of three close friends to create a manual trading bot for people to be able to create their own trading algorithms. Most of my work was back-end oriented, but I also worked in front-end and dev-ops tasks. Created most of the ui features and integrated various Binance and TradingView API's and plugins into the system. Through this project I gained a ton of experience in different technologies such as React and Node.js.

#### Linux Fundamentals and Command Line Operations Certification

Student: Furkan Kayhan | School: Miuul | Course: Linux Fundamentals and Command Line Operations  
|No: rmo6c1ihpm

<https://learning.miuul.com/certificates/rmo6c1ihpm>

I received training on system management, users, networks, etc., related to Linux OS, and I have further expanded on this education with setting up a file synchronization tool GUI between my Linux system installed via Oracle Virtual Machine and my Windows OS.

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### Software Skills

AutoCAD, Civil 3D, NETCAD, ArcMap

SAP2000 and ETABS

Ms Project and BIM software such as Revit, Navisworks and Allplan

MS Excel, extensive VBA knowledge to create custom macros.

Python, MySQL, HTML/CSS/JavaScript

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### Skills

Strong grasp of structural engineering and geotechnical engineering

Project risk assessment

Experience in site survey and off-road driving.

Excellent written and verbal communication skills in both English and Turkish

Effective communication and collaboration abilities

Strong analytical and problem-solving skills

ISO-9001 and ISO-45001 certification

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### Languages

Turkish (Native) · English (C2) · Russian (A2)