

Ahmet Furkan Kayhan

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About

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

Middle East Technical University, Civil Engineering, GPA: 2.88

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 Turkish Earthquake Code 2018 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

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, lightning and other potential risks and cleaned and prepared data and created reports and visuals data sets for more than 30000 towers nationwide.
- Design alternative paths for gridlines and determine optimal locations with ArcMap and NetCAD for transmission towers to enhance resilience and calculate costs for existing and alternative paths.
- 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.
- Collaborate with cross-functional teams for effective communication and project alignment.

Soysal Engineering, Technical Office, Ankara

December 2022 – April 2023

Long-Term Civil Engineer Intern

- In this project within the IPA II period of the European Union, I took part in documenting construction specifications and schedule progress and joined meetings as English-Turkish translator.
- Maintain organized documentation of CAD drafts and revisions for future reference.

Kızılırmak Right and Left Banks Wastewater Collector Project, Eptisa, Sivas

August – September 2022

Civil Engineer Intern

- Participated in various projects involving pipeline installation and water treatment plant maintenance, as well as on site renovation of drinking water distribution system.
- Take active role in triangulation and other land surveys, and input contour lines using NETCAD.

Silvan Dam, Ilci Construction, Diyarbakır

July – August 2021

Civil Engineer Intern

- Conduct on-site inspections related to hydroelectric topics and structural engineering.
- Completed the structural analysis of a vehicle maintenance station using SAP2000.

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.

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

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

Languages

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