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| Ufuk Sen  Civil Engineer, MSc | Ankara/TURKEY  +90 546 973 0619  ufuk\_sen@outlook.com |

Objective

As a graduate student, I specialized in earthquake engineering of dam bodies. However, during my time in the department of dams and hydropower plants, I had the opportunity to work extensively on spillways and outlet works. This experience allowed me to gain a comprehensive understanding of the subject matter, approaching problems from various angles and appreciating the bigger picture.

Education

## Gazi University, Turkey Doctorate (Present)

**GPA: 3.59** (current) – Dissertation: Probabilistic Performance Based Assessment of Earth-fill and Concrete Dams under Inertial Soil-Structure Interaction Effects

## Louisiana State University, USA Master’s Degree (2018)

**GPA: 3.43** – Thesis: Risk Assessment of Concrete Gravity Dams under Earthquake Loads

## Bulent Ecevit University, Turkey Graduate (2013)

**GPA: 3.02**

Experience

## Project Engineer General Directorate of State Hydraulic Works of Turkey (DSI)

Nov 2018 – Aug 2022 / Ankara, TR

Dep. of Dams and Hydropower Plants

Checked reports prepared by private companies for accuracy and compliance with regulations:

* Determined place, type and size of spillways and outlet works based on topography, hydrology, type of dam, etc.
* Conducted hydraulic design of spillways and outlet work, (i.e., discharge capacity, flood routing, water surface elevation, cavitation, terminal structures design, etc.)
* Conducted optimization studies on spillway size vs. dam height & outlet work size vs. cofferdam height,
* Conducted structural analysis of spillways and outlet work including valve house (stability, static, reinforcement etc.)
* Utilized HecRAS analysis to assess dam sites,
* Conducted slope stability and tunneling assessments.

## Control Engineer DSI 233. Division

Aug 2022 – Feb -2023 / Bartin, TR

Checked the construction stages of Flood Protection Structures for compliance with the project.

## Field Engineer Bahadir Engineering & Aras Construction Business Partnership

Sep 2013 – Feb 2014 / Elazig, TR

Construction of prison, housing, workplace as parts of High Security Prison Construction Project

Publications

Sen, U., & Okeil, A. M. (2020). Effect of biaxial stress state on seismic fragility of concrete gravity dams. Earthquakes and Structures, 18(3), 285.

Awards

Awarded by the Ministry of National Education of Turkey with a remarkable fellowship to study abroad.

Skills

• Earthquake Engineering

• Dams and HPPs

• Spillways and Outlet Works

• Dynamic Analysis

• Finite Element Methods

• Structural Reliability

Softwares

• ANSYS, SAP2000

• AutoCAD

• FLOW-3D, HecRAS

• MATLAB, Python

Languages

• IELTS (2017): 6.50/9.00

• YDS (2019) : 77.50/100