

Ozan Barış Mülayım

Graduate Structural Engineering Student

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Education

Ph.D. Candidate in Advanced Infrastructure Systems,
Carnegie Mellon University
08/2022 – present | Pittsburgh, USA

B.Sc. in Civil Engineering,
Middle East Technical University
08/2016 – 07/2021 | Ankara, Turkey
CGPA: 3.89/4.00

Professional Experience

Politecnico Di Milano, Visiting Researcher
04/2022 – 07/2022 | Milan, Italy

- Conducted research on the usage of a multiobjective evolutionary algorithm in conceptual design of Highway Bridges.

BOLINA Ingegneria S.R.L., ERASMUS Intern
08/2021 – 11/2021 | Venice, Italy

- Seismic base isolation
- Seismic risk analysis
- Italian construction practices
- Building Information Modeling

BridgeWIZ Engineering, Intern & Candidate Engineer
07/2020 – 10/2020 | Ankara, Turkey

- Research on a new rib to deck welding methodology
- Fatigue life computation of a steel factory with a moving crane load
- Remaining lifetime determination of a steel factory
- Safety control of incremental launching method of a 900 meter long steel orthotropic bridge.
- Formulation of a new seismic isolation bearing with the experimental data using regression models
- AI application to measure the diameters of the trees for the ministry of agriculture and forest
- Site inspections of bridges and highways

Limak Group of Companies, Intern
08/2019 – 09/2019 | Ankara, Turkey

Gürsögüt 1&2 dams and HEPP construction

- Experiments at the Quality Control Laboratory
- Ground improvement applications
- Construction of steel and RC structures & Tunnels

Interests

Camping • Oil Painting • Wood Crafting • Tango
Fitness • Trekking • Planting

Test Scores

GRE: Verbal: 156 (72%), Quantitative: 170 (96%)

IELTS: R:9 L:9 S:7 W:7 Overall:8/9

TOEFL iBT: 105/120

Skills

SAP2000 (Experienced) | Larsa4D (Skillful)

Python (Skillful) | MATLAB (Skillful)

Microsoft Excel (Experienced) | Excel VBA (Beginner)

AutoCAD (Experienced) | Photoshop (Skillful)

Awards

Fulbright, Principal Nominee, 2022-2023,

International Civil Engineering Competition, Winner
My team won the smart city competition organised by IACES in Turkey. Our design was the availability detection for the campus facilities using AI.
https://bit.ly/icec_smart-i

METU Educational Support Scholarship, 2016-2021

Borusan Foundation Scholarship, 2016-2021

Projects

Artificial Intelligence Research Group (METU),
Researcher, 03/2020-Present

- Possible AI applications on civil engineering
- Should cost modeling applications
- Bibliometric analysis on San Fernando Earthquake

Certificates

Structural Dynamics Workshop, Izmir High Technology Institute (IYTE)

As one of the 25 students chosen by the scientific and technological research council of Turkey (TUBITAK) from all around Turkey, I practiced python programming on structural dynamics.

Organisations

METU LODOS, Board member (2018-2019)

09/2016 – present

An organization working for children with leukemia, autism, down syndrome and cerebral palsy

METU Scout Group, Active Member

09/2018 – present

METU scout group arranges not only camping & trekking activities but also aid campaigns

METU CE Sustainability, Active Member, Researcher

03/2021 – present | Ankara, Turkey

Sustainability integration to the curriculum of Civil Eng. degree, Research about sustainable construction & design, Green-campus activities.