

Ömer Faruk Karaman

Environmental Engineer / PhD Candidate

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📍 Budapest, Hungary

WORK EXPERIENCE

Environmental Engineer

Yanci Recycling

09/2017 - 09/2018

Sivas, Turkey

Recycling of packaging materials

Achievements/Tasks

- Generation, collection, analysis, processing and evaluation of data of recycling plant.
- Developed and implemented a sustainability training program for all employees and students.
- Increased revenue by 60%.

Environmental Engineer

Mutlular Energy

09/2016 - 05/2017

Balıkesir, Turkey

Biomass power plant

Achievements/Tasks

- Monitored remote control system of the plant for water supply.
- Generation, analysis and visualization of environmental data.
- Increased energy efficiency by 30% and water treatment efficiency by 20%.

EDUCATION

Process Engineering (PhD)

Budapest University of Technology and Economics

09/2021 - 08/2025

Budapest, Hungary

Research topic

- Multi-objective optimisation of batch distillation processes.

Environmental Engineering (MSc)

University of Pannonia

09/2018 - 01/2021

Veszprém, Hungary

Specialization

- Increasing sustainability in wastewater treatment plants.

SKILLS

MS Office (Excel, Word, PowerPoint)

ChemCAD

Tableau

AutoCAD

Python

PUBLICATIONS AND PROJECTS

Improving the sustainability of acetone recovery (in CET). (01/2023 - 06/2023)

- A new operational policy is proposed with higher profit (by 39 %) and lower environmental impacts (73% lower specific CO2 emission) compared to the base case.

Surrogate model-based optimisation of a batch distillation process (in ChERD). (09/2022 - 03/2023)

- Number of simulations reduced from 3000 to 1000.
- Profit increased by 5%.

Improving sustainability in wastewater treatment plants (06/2020 - 01/2021)

- Designed a sustainable wastewater treatment plant.
- Decreased CO2 emission by 40% and improved sustainability by over 90%.

LANGUAGES

Turkish

Native or Bilingual Proficiency

English

Full Professional Proficiency

German

Limited Working Proficiency