Sena Melis Kaleli / Civil Engineer

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Professional Summary

A highly motivated and detail-oriented Project Development Engineer with a strong background in civil engineering and sustainable project implementation. With over three years of experience in project development, international business development, and tender management, I have contributed to internationally funded initiatives, strategic tendering processes, and the development of renewable energy, water resources management, and infrastructure projects. Proficient in engineering tools and techniques, project coordination, and proposal development, I excel at navigating high-pressure environments while ensuring quality and cost efficiency. My technical expertise, supported by advanced problem-solving skills and familiarity with tools like GIS and data analysis, enables me to design, implement, and optimize solutions that address complex challenges. Through cross-functional collaboration, design thinking, and a commitment to continuous learning, I strive to create resilient, cost-effective, and impactful projects that align with tomorrow's world. I am particularly interested in soft computing, data analysis, AI, MCDM, natural resource management—specifically water resources—as well as hazard and risk management studies

Skills

- Engineering Software: AutoCAD, Primavera Risk Analysis, ArcGIS, QGIS, SWAT+, MATLAB, Python, R
- **Project Management:** MS Office Suite, Jira, Contract Management (FIDIC), Risk Analysis
- Languages: Turkish (Native), English (Advanced), Spanish (Beginner)
- **Key Competencies:** Data Analysis, Scientific Research, Proposal Development, Technical Writing, Procurement, Stakeholder Communication, Budgeting

Professional Experience

Project Development Engineer Environmental Chemical Corporation, Burlingame, CA, USA / Remote 2023-05 – Present

• Managed proposal development for renewable energy and infrastructure projects, ensuring compliance with international procurement standards.

- Collaborated with multidisciplinary teams to assess project feasibility and prepare technical and financial proposals.
- Developed significant relationships with customers and suppliers, helped team to get new business partnerships and deals.
- Developed notification systems using Web Scrapping tools and Python Libraries for tracking contracts, tenders.

Tendering Engineer

OPTİMAL Project Management, Istanbul, Türkiye 2023-02 – 2023-05

- Followed procurement notices from international financial institutions (IFIs) and national organizations.
- Prepared pre-qualification and expression of interest documents for construction consultancy projects.
- Monitored compliance with organizational strategies during project proposal processes.
- Tracked compliance with contracts and project developments.

National Project Assistant

Ministry of Environment, Urbanization and Climate Change (MoEUCC), Ankara, Türkiye 2022-06 – 2023-02

- Supported an UNIDO implemented GEF-funded project focused on eliminating priority chemicals in polystyrene industries.
- Conducted risk assessments, training needs analyses, and budget/work plan studies and oversees the project.
- Ensured contract compliance.
- Organized project workshops and site visits with over 100 participants, ensuring effective stakeholder communication.

GIS Specialist Intern

Nature Conservation Center (DKM), Ankara, Türkiye 2022-03 – 2022-05

- Conducted spatial data analysis using QGIS and SWAT+ for watershed modeling.
- Provided data integration and visualization support for biodiversity studies.
- Represented DKM at the CARE+ Project in Murcia, Spain.

Research Intern

Middle East Technical University Applied Ethics Research Center (AERC), Ankara, Türkiye 2021-10 – 2022-03

- Evaluated Turkey's water policy issues through ethical frameworks.
- Collaborated on publishing research aimed at improving socio-economic parameter integration in hydrological models.

Undergraduate Research Assistant

Middle East Technical University, Ankara, Türkiye 2020-11 – 2021-08

- Contributed to watershed modeling processes.
- Performed literature reviews for reports and submission to peer-reviewed journals.
- Supported budget management and organized events for the research team.

Founder & President

METU Civil Engineering Sustainability Team (CEST), Ankara, Türkiye 2021-04 – 2022-01

- Established a student organization focused on sustainability in engineering, growing membership to over 100.
- Led six interdisciplinary projects and hosted seminars with over 700 participants.
- Developed an AI and programming curriculum to support team projects.

Program Coordinator

Arkhé Project, Şirince/ İzmir, Türkiye 2020-06 – 2020-08

- Coordinated and executed events involving logistics, budget allocation, activity planning, and transportation for 100 students and 15 experts.
- Identified issues, analyzed information, and provided solutions to problems.
- Maintained energy and enthusiasm in a fast-paced environment.

Education

Master of Science in Civil Engineering – Water Resources Management

Middle East Technical University (METU), Ankara, Türkiye 2023-02

- Relevant Coursework: Decision Analysis: Tools and Methods, Water Resources System Engineering I (Optimization), Statistical Modeling in Hydrology, Research Methods and Ethics in Civil Engineering
- Thesis Work (In Progress): AI-Driven Groundwater Level Prediction in Data-Scarce Turkish Aquifers: Integrating Satellite Remote Sensing and Climate Data for Enhanced Forecasting

Bachelor of Science in Civil Engineering

Middle East Technical University (METU), Ankara, Türkiye 2016-08 – 2022-08

• GPA: 2.82 (Top 10% of the department)

- Elective Courses: Statistical Techniques in Hydrology, GIS, Cost Estimation, Earthquake Engineering
- Activities: METU Sports Climbing (APES), METU Big Band Jazz Vocal, METU EDT Latin Dance Coordinator, METU Capoeira Member, Founder of METU CEST

Certifications & Awards

- Certificates: Project Control Engineering Training (Derin Mavi Consultancy 2024), Solar Energy Systems Overview (University of Buffalo – 2024), Mathematics for Machine Learning (Imperial College London – 2024), Fundamentals of GIS (UC Davis – 2021), Computational Thinking and Problem Solving (University of Pennsylvania – 2020), World Bank Contract Management Program (2023), Disaster Risk Management Trainee (CRAFT Project), Climate Ambassador (EU, 2021), Comenius – Nowadays Dilemma: Technology (EU - 2014)
- Awards: TEV Scholarship, METU Alumni Scholarship, TÜBİTAK STAR Scholarship, SANKO Energy Scholarship
- **Recognitions:** Regional Chess Player (4 medals), Most Efficient Design Award (METU Civil Engineering), Best Music Implementation (National Theatre Festival)

Additional Projects

• Smart Building Energy Solutions (Sensgreen, IoT Company): Improved sensor performance and contributed to LEED/WELL certification strategies.

References Available upon request.