Deniz Ege Memetoglu

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Summary

Industrial Engineering graduate (Izmir University of Economics, July 2026) and M.Sc. student in Computational Science and Engineering at Izmir Institute of Technology with three operations internships spanning container shipping, FMCG planning and talent-solutions data. Delivered quantified improvements through VBA automation, MRP-based procurement and discrete-event simulation. Seeking management-trainee programs or early-career roles in operations, supply chain or consulting where process optimization and data-driven problem solving drive measurable impact.

Experience

Hapag-Lloyd Izmir, Turkey
Operations Intern *Oct 2025 – Jun 2026*

- Conducted regional stock analysis across 5+ terminals to optimize container inventory, identifying ∼15% excess capacity opportunities and reducing repositioning costs.
- Developed 3 Excel VBA macros automating daily reporting workflows, cutting manual workload by 30% and eliminating recurring calculation errors.

TopTalent.co – Talent Solutions Remote, Turkey
Data Intern *Jun 2025 – Aug 2025*

- Standardized 10,000+ records across multiple platforms into a unified database structure, enabling 40% faster query response times.

Feast / Ozgorkey Group Izmir, Turkey
Planning Intern *Jul 2025 – Aug 2025*

- Implemented MRP-based procurement adjustments for 30+ products, improving stock availability by 22% and reducing planning workload 35% via VBA automation tools.
- Analyzed demand trends and seasonal patterns across product lines, achieving 89% forecast accuracy.

Projects

Warehouse Slotting Optimization – Schneider Electric | *SimPy, Python, ANOVA, SAP WM* Jan 2026 – Jun 2026

- As simulation lead on a 4-person capstone team, built a discrete-event simulation of 3,137 pallet positions from 167,784 SAP WM dispatch rows; evaluated 6 slotting policies via ANOVA and Tukey HSD ($p < 1e\text{-}8$).
- Line-aware slotting policy cut kit lead time 44% (14.1 → 7.9 min); advantage grew to 20.7 min under a 2× arrival-rate stress test.

TEKNOFEST 2026 – AI Logistics Linehaul Optimization (Top 10 of 500) | *Python, Heuristic Search, Forecasting* Mar – Aug 2026

- Technical lead of a 4-person team. Built the planner that turns 7 days of forecast demand into a vehicle plan over 18 transfer centers: cut total cost from 13.47M TL (first feasible plan) to 10.72M TL, −20.4%, with zero hard-constraint violations.
- Largest single lever was en-route drop-off (one vehicle serving two destinations instead of two trips), worth 2.42M TL; full run takes 197 s against a 100-minute limit and is deterministic.

RFID Checkout Redesign – Migros Macro Center | *Time Study, Capacity Analysis* May 2026

- Led 60-cycle time study across 4 checkout lanes; proposed RFID-gate redesign cutting standard cycle time 78% (190 → 41 s/customer), raising throughput capacity 132% and reducing WIP 79%.

Guzelbahce Metro Line – Project Management | *MS Project, Earned Value Analysis* Oct 2025

- Developed full project plan for a $5.5B metro extension: WBS, Gantt, critical path, EVA, resource leveling for 25+ resources, and mitigation plans for 8 high-priority risks.

Education

Izmir Institute of Technology (IYTE) Izmir, Turkey
M.Sc. Computational Science and Engineering (thesis) *Sep 2026 – Present*

- Thesis: machine learning on mechanistic kinetic descriptors for catalytic and photocatalytic degradation.

Izmir University of Economics Izmir, Turkey
B.Sc. Industrial Engineering *Sep 2022 – Jul 2026*

- **Dean's Honour List 2026**
- Relevant coursework: Simulation, Operations Research, Inventory Planning, Manufacturing Systems, ERP with SAP, Network Optimization, Data Mining

Skills

Programming & Data: Python (Pandas, NumPy, Scikit-learn, LightGBM), SQL, Excel VBA, MATLAB
IE & OR Tools: SimPy, Arena Simulation, PuLP/HiGHS, CPLEX, Minitab, MS Project
ERP & Systems: SAP S/4HANA (MM/SD basics), IFS ERP, Kuika low-code, MS Office 365
Methods: MRP, ABC analysis, demand planning, inventory modeling, process mapping, time study

Languages

Turkish: Native **English**: C2 (Proficient) **German**: A2 (Elementary)