Hilal YILMAZ
Industrial Engineer & Method Improvement Specialist

Industrial & Management Engineering | Process Optimization & Digital Transformation | Method Improvement & Production Systems Development | | Production & Planning Engineering | Data-Driven and AI-Supported Manufacturing Systems | Industry 4.0 Implementation | Automotive

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Industrial Engineer specialized in method standardization and MTM-based optimization, delivering up to 45% cycle time improvement across manufacturing lines. Experienced in digitalizing production systems through e-matrix–based capacity planning and data-driven analysis. Strong in translating complex operational problems into efficiency- and cost-focused solutions, leveraging AI-assisted and digital tools in close collaboration with cross-functional manufacturing teams.

EXPERIENCE

Method Improvement & Manufacturing Systems Development Engineering Specialist
Martur Fompak International | Bursa, Turkey   **11.2024 – 12.2025**

Led method improvement and manufacturing system development initiatives across production lines, focusing on cycle time reduction, workforce optimization, and data-driven performance management.

- Delivered ~45% cycle time reduction through MTM-based method standardization, job combination, and line balancing across manufacturing lines.
- Managed capacity and workforce planning across two production locations using e-matrix; developed KPI and cost vs. actual dashboards for senior management, reducing multi-site reporting lead time to 3 days.

Advanced Manufacturing Engineering
Martur Fompak International | Bursa, Turkey   **05.2024 – 11.2024**

Supported new product industrialization activities by coordinating PFMEA, process documentation, and cross-functional line setup to ensure SOP and serial production readiness across 6 production lines.

- Coordinated PFMEA execution, process documentation, and line setup activities with Production, Quality, and Maintenance teams, ensuring full compliance with SOP and serial production requirements.

Career Break | Bursa, Turkey   **01.2023 – 12.2023**

Took a planned career break for health recovery and focused on personal and professional development.

- Focused on learning data analysis and artificial intelligence fundamentals and following their applications in manufacturing and operational systems.

Production and Planning Engineering
Bosch – Powertrain Solutions | Bursa, Turkey   **02.2022 – 11.2022**

Supported production and assembly process optimization initiatives using FMEA and SPC, with a focus on process stability, safety, and cost performance.

- Reduced scrap rate by 10% through root cause analysis and targeted standardization activities.

- Improved line availability by 7% and achieved an 8% cycle time reduction through operational and process improvements.

Industrial Engineering – Voluntary Project
Salerno University | Salerno, Italy   03.2018 – 06.2018

Participated in an academic industrial engineering project focused on car seat ergonomics, supporting data analysis and production process optimization.

- Conducted statistical data analysis using SPSS and supported process optimization studies using simulation and CAD tools (DELMIA, CATIA).

EDUCATION

Master Degree – Management Engineering | Salerno University | 2018 – 2021

Bachelor Degree – Industrial Engineering | Dumlupinar Univesity | 2012 – 2017

LANGUAGES

English – Advanced (active use in professional settings)
Italian – Intermadiate
German – Basic
Turkish – Native

TOOLS & SYSTEMS

Microsoft Excel – Advanced
(Capacity & workforce planning, analytical tables, advanced formulas, management reporting)
Microsoft PowerPoint & Word – Active Use
(Management presentations, technical documentation, standardized reporting)
SAP – Active Use
(Production Planning, Manufacturing Systems, KPI and reporting processes)
Power BI – Intermediate
(KPI dashboards, weekly and monthly performance reporting)
MTM & Work Measurement Tools – Active Use
(MTM-UAS, work measurement, cycle time and method analysis)

SKILLS

Manufacturing Process Optimization | Lean Process Improvement | Method Standardization & MTM-UAS | Capacity & Workforce Planning (e-matrix) | Production Planning & Control | KPI & Performance Analysis | Data Analysis & Management Reporting | SAP (Production Planning, KPI) | Power BI (Dashboards) | MS Excel (Advanced)

INTERESTS

Engineering-focused content on data analysis & AI applications in manufacturing systems.(Medium,Peerlist)