

Education

Western Michigan University

Ph.D., Industrial Engineering. GPA: 3.95/4.00

Relevant Coursework: Linear Programming, Econometric Analysis, Applied Linear Models

Kalamazoo, MI, USA

2025 - Present

Western Michigan University

M.Sc., Industrial Engineering. GPA: 4.00/4.00

Thesis: Optimization of the Room Booking Processes in a Nonprofit Organization

Relevant Coursework: Operations Research, Ergonomics, Capital Budgeting, Production and Operations Management, Applied Data Mining, Advanced Simulation

Kalamazoo, MI, USA

2023 - 2025

Eskisehir Technical University

B.Sc., Industrial Engineering.

Relevant Coursework: Operations Research, Data Mining, Artificial Intelligence, Computer Vision, Decision Support Systems

Eskisehir, Turkey

2019 - 2023

Experience

Western Michigan University

Graduate Assistant

Kalamazoo, MI, USA

August 2023 – Present

- Spring 2026: Instructed lab sessions for IEE2610 - Engineering Statistics and EM3280 – Quality Assurance and Control.
- Fall 2025: Instructed lab sessions for IEE2610 – Engineering Statistics.
- Spring 2025: Instructed lecture and lab sessions for IEE3110 – Introduction to Operations Research and EM4040 – Facilities Planning.
- Fall 2024: Instructed lab sessions for IEE2610 – Engineering Statistics.
- Spring 2024: Instructed Python-based lab sessions for IEE3110 – Introduction to Operations Research.
- Fall 2023: Assisted EM3280 – Quality Assurance and IEE5010 – Survey of IE Topics.
- Contributed to the writing of 5+ grant proposals.
- Presented research findings at two academic conferences.
- Co-advised a senior design team.

Ford Trucks Turkey/Ford Otosan

Industrial Engineering Intern

Eskisehir, Turkey

March 2023 – June 2023

- Developed a heuristic for worker assignment that increased operational efficiency by 20%.
- Designed and implemented a proof-of-concept document management system for quality management, including PFMEA and DFMEA documentation.
- Conducted time studies to analyze and optimize operational performance.
- Simulated production and assembly lines to validate proposed process improvements.

Beko Global (Formerly known as Arcelik)

IT Intern

Istanbul, Turkey

May 2022 – September 2022

- Worked with various SAP modules, primarily SAP APO.
- Tested and evaluated multiple ERP and forecasting software solutions for the company.

Skills & Interests

Technical: Python, C++, R, JavaScript, C#, Pyomo/PuLP/GAMSpy, GAMS, Arena Simulation, FlexSim, TensorFlow, PyTorch, LangChain, Flask, Optimization/Operations Research, Machine Learning

Language: Turkish (Native), English (Fluent)

Leadership & Activities

Electrical Engineering Students' European assoCiation – EESTEC

Eskisehir, Turkey

Various Roles

2019 – 2023

- Served as the primary contact person (CP) for the local committee board, managing all local and international communications.
- Represented the committee at the Fall 2021 Congress held at ETH Zurich, Switzerland
- Served as a member of the supervisory board, contributing to oversight and governance activities.
- Actively involved as a member for four years, supporting ongoing organizational initiatives

Professional Associations

Alpha Pi Mu - Industrial and Systems Engineering Honor Society

Sigma Xi - The Scientific Research Honor Society

IEEE - Institute of Electrical and Electronics Engineers

IEOM - Industrial Engineering and Operations Management Society

INFORMS - Institute for Operations Research and the Management Sciences

Conferences & Publications

- **Darici, E.**, Hamelink, K. K., & Acar, I. (2024, June). Human resources analytics: Determining possible turnovers with feature engineering approach. *9th North American Conference on Industrial Engineering and Operations Management*, Washington D.C., United States. <https://doi.org/10.46254/NA09.20240026>. **Best Graduate Student Paper Award.**
- DSantos, A., Acar, I., Hamelink, K., & **Darici, E.** (2024, October). Posturography-based decision support system for mTBI detection. Abstract presented at the *2024 INFORMS Annual Meeting*, Seattle, WA.
- **Darici, Eren**, “Optimization of the Room Booking Processes in a Nonprofit Organization” (2025). Masters Theses. 5456. https://scholarworks.wmich.edu/masters_theses/5456

Awards

- **Outstanding Student Award – April 17, 2025** – Outstanding Achievement in Industrial Engineering Master’s Program (4.00/4.00 GPA, ranked 1st in the class of 2025)
- **Best Graduate Student Paper Award – June 2024** – “Determining possible turnovers with feature engineering approach” titled paper at 9th NA IEOM