Meriç Kösetorunu

✉ merickosetorunu@hotmail.com
🌐 https://www.merickosetorunu.com
📍 Torino, Italy

▬▬ Education

MSc. in Mechatronics Engineering, Software Techs. for Automation 09/2024 – ongoing
Politecnico di Torino, Italy

Erasmus+ Student Exchange Program, Business and Engineering 03/2022 – 07/2022
Technical University of Applied Sciences Würzburg–Schweinfurt, Germany

Double Degree in Industrial Engineering 09/2020 – 06/2024
Izmir University of Economics, Turkey
○ GPA: **3.17/4.00**

BSc. in Mechatronics Engineering 09/2019 – 06/2024
Izmir University of Economics, Turkey
○ GPA: **3.42/4.00**
○ 100% Merit–Based Scholarship by Turkish Student Selection and Placement Center (OSYM)
○ Campus Activities:
  - **Vice President** of IUE Innovation & Entrepreneurship Student Club
  - **Board Member** of IUE Student Council
  - **Member** of IUE ESTIEM Local Group
  - **Member** of Rotaract District 2440 Digital Transformation Committee

▬▬ Experience

R&D Engineer Smart Start | *Bosch Home Comfort Group* 09/2023 – 06/2024
○ Conducted comprehensive testing and analysis of hydraulic components, leading to enhanced performance and reliability.
○ Generated detailed reports on testing outcomes, ensuring clear communication with design and manufacturing teams.
○ Improved system diagnostics by identifying root causes of performance issues and implementing effective solutions.

Smart Project Team Member | *Bosch Home Comfort Group* 09/2022 – 09/2023
○ Spearheaded digital transformation initiatives, streamlining workflows and enhancing operational efficiency.
○ Analyzed and optimized processes, developing recommendations that improved workflow integration.
○ Coordinated with multiple departments to successfully implement strategic improvements in digital tools and systems.

Machine Learning Intern | *SkyNeb Financial Technologies* 02/2021 – 03/2021
○ Contributed to the development of machine learning models for financial prediction and optimization.
○ Assisted in designing and testing algorithms for real–time data processing in trading systems.

▬▬ Language Skills

Turkish ●●●●●   English ●●●●○   German ●●○○○   Italian ●○○○○

Technical Knowledge

Python, MATLAB, Simulink, SOLIDWORKS & Fusion 360, OrCAD & LTSpice, RoboDK, ROS & ROS2, Gazebo & RViz, Arduino & ESP32, Factory I/O, Siemens TIA Portal, IBM ILOG CPLEX, IBM Watson ML, Minitab, SAP, SQL, MS VBA, MS Power Platform

Research Interests

Internet of Things (IoT), Automation, Robotics, Artificial Intelligence (AI), Machine Learning, Digital Twin, Optimization, Predictive Analytics

Projects

Design and Development of SSVEP–FNIRS Based Brain–Computer Interface Controlled Wrist Rehabilitation Robot 09/2023 – 06/2024

IUE Mechatronics Engineering, **Bachelor's Thesis**

○ Supervisor: Asst. Prof. Ebru Sayılgan

Plate Production Automation in Factory I/O 02/2024 – 06/2024

IUE Mechatronics Engineering, **MCE 420 Course Project**

○ Supervisor: Orhan Ölçücüoğlu

Pipe Workshop Production Planning with a Mathematical Model 09/2022 – 06/2023

IUE Industrial Engineering, **Bachelor's Thesis**

○ Supervisors: Asst. Prof. Kamil Erkan Kabak, Asst. Prof. Alper Demir

Controlling Turtlesim with Joystick via ESP32 09/2022 – 01/2023

IUE Mechatronics Engineering, **MCE 330 Course Project**

○ Supervisor: Res. Asst. Serdar Hakan Argüz

Multi–Purpose Lamp 02/2021 – 06/2021

IUE Mechatronics Engineering, **MCE 202 Course Project**

○ Supervisor: Asst. Prof. Lütfi Mutlu

Hand Gesture Controlled Robot 09/2019 – 01/2020

IUE Mechatronics Engineering, **MCE 102 Course Project**

○ Supervisor: Asst. Prof. Gazihan Alankuş

Scholarships & Achievements

TÜBİTAK 3501 – Career Development Program Scholarship 2024

Issued by The Republic of Turkey Ministry of Industry and Technology (TÜBİTAK)

1st Place – Local Qualification of TIMES Case Study Competition 2023

Issued by European Students of Industrial Engineering and Management (ESTIEM)

1st Place – Next Generation Ideas for Creative Industries Ideathon 2022

Issued by Aegean Young Business Association (EGİAD)

Certificates

Forward Program | *McKinsey & Company* 2024
Data Science Practitioner | *IBM* 2022
Neural Networks and Deep Learning | *DeepLearning.AI* 2021
Fundamentals of Deep Learning | *NVIDIA* 2021
AI with Microsoft Cognitive Services | *Microsoft Learn Student Ambassador* 2020
Key Functional Topics in a System Conversion to SAP S/4HANA | *SAP* 2020