

Ömer Erencan Dural

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via Domenico Scarlatti 20, 20124, MI, Italia
02.06.1997 – Turkish Citizen

Work Experience

• NTT Data –

Robotics Engineer (September 2024 – present)

- Development of a digital twin and teleoperation application of a robotic arm.

Research and Development Systems Engineer (September 2023 - present)

- Function owner in Audi.
- Responsible from the ongoing activities in the development of new car apps.
- Project management, activities tracking and establishing coordination between teams.

• Metis PR – Intern (April 2023)

- Helped the partners with the media briefs for various events and installations.
- Took an active role in organization and planning of clients' events during Milan Design Week 2023.
- Oversaw the client-media interactions during events such as Salone del Mobile.

• Haier Europe – Industrialization Engineer Intern (September 2022 – February 2023)

- Aid the industrialization team in bridging the gap between the engineering and manufacturing section.
- Keeping track of the ongoing projects and providing organizational help where needed.

• ASELSAN – Research and Development Intern (June 2018 – July 2018)

- Worked on the development of an image stabilization system through Kalman Filter and PID control for an end actuator on a robotic arm using an IMU and Arduino.

• TUSAS Engine Industries Inc. – Production Intern (June 2017 – July 2017)

- Observed and analyzed both conventional and advanced manufacturing processes of the static components of aeronautical engines.

• ODTU TEKNOKENT Directorate of Entrepreneurship – Intern (August 2016 – September 2016)

- Assisted the directorate with the organization of the YFYI start-up acceleration program.
- Assisted with the communication and logistics between the start-ups and mentors and the directorate.

Education

• Politecnico di Milano, M. Sc. in Mechanical Engineering (2019 – 2023) 101/110

◦ *Mechatronics and Robotics Track*

◦ *Thesis Topic:* Teleoperation of a 7 DoF Robot with a Wearable Device Capable of Multimodal Feedback

List of Elective Courses Taken: Robotic Systems Design, Automatic Control A, Mechatronic Systems and Laboratory A, Electrical Drives for Industry and Transport Applications, Critical Thinking

• Middle East Technical University (METU), B. Sc. in Mechanical Engineering (2015 – 2019) 3.50/4.00

◦ **Final Project:** Automatic Pet Feeder – Actualized the entire electrical system of an automatic pet food dispenser with a complete circuit board design and an intuitive user interface utilizing the state machine concept with an **Arduino** and basic electronic modules.

◦ **List of Elective Courses Taken:** Steam Generator and Heat Exchanger Design, Mechanical Vibrations, Design of Control Systems, Fundamentals of Micro-Electromechanical Systems, Mechatronic Components and Instruments, Mechatronic Design

Extracurricular Activities

• Active Member – METU Mechanical Engineering and Innovation Society (2015 – 2019)

◦ **Secretary General (2017–2018):** Handled the student society's finances, managed the communication between the society and the university.

◦ Carried out maker projects using prototyping methods and micro-controllers, designed Printed Circuit Boards, organized events for the university and for newcomers.

• EuroSimA Public Relations and Delegate Affairs (2015 – 2017)

METU Foreign Policy and International Relations Club

◦ Handled communications between international schools and delegates and the university for a European Union simulation.

Technical Skills

• **Advanced:** ROS, Arduino IDE, Unity 3D, MATLAB, Simulink, Simscape, LATEX, Microsoft Office

• **Upper Intermediate:** Autodesk Fusion 360, KeyCreator CAD, Inkscape, Processing IDE

• **Intermediate:** Adobe CC, Mathematica, Python, C++, Raspberry Pi, Affinity Suite

• **Basic:** Solidworks CAD

Language Skills

• **Turkish:** Native language

• **English:** Professional or bilingual proficiency

• **Italian:** Upper intermediate

• **German:** Beginner