Omer Erencan Dural

erencandural.github.io

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Work Experience

- **NTT Data Italia** – *R&D Systems Engineer* (Italy, September 2023 - present)
  - Conceptual Design of an Embedded System (Personal R&D Project)
    - Development of a cockpit from its conception, including literature survey, microcontroller selection and the design of the SW architecture.
    - Utilizing Zephyr and VS Code toolchains to achieve scalable embedded system development.
  - Function Owner of a car application for Audi, through Italdesign Giugiario.
    - Understand the car infotainment architecture to accommodate requests for the connectivity of the infotainment system in the car including backend server infrastructure (V2I).
    - Support the development of advanced infotainment features/functions and their documentation in the requirements tool chain.
    - Analyze Requirements, Functional Specifications against the target HW.
    - Interface with customers on system architecture through workshops and design meetings
    - Coordinate with other departments and suppliers steering.
    - Perform project scheduling, management and issue tracking.
    - Perform problem item investigation and resolution.
    - Generate technical reports and various presentation materials to communicate issues, achievements, and technical information for project evaluations and information sharing across the organization.
    - Plan and direct software and hardware updates to test facilities.
- **METIS PR** – *Intern* (Italy, April 2023)
  - Create media briefs for various events and installations and facilitate client-press relations.
  - Organize and plan client events during Milan Design Week 2023.
  - Oversee the client-media interactions during Salone del Mobile.
- **Haier Europe** – *Industrialization Engineer Intern* (Italy, September 2022 – February 2023)
  - Aid the industrialization team in bridging the gap between the engineering and manufacturing departments.
  - Keep track of ongoing projects, provide documentation and organizational help where needed.
  - Carry out device installations across different factories and coordinate supplier-shareholder-customer relations.
- **ASELSAN** – *R&D Intern* (Turkey, June 2018 – July 2018)
  - Develop 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 (Turkey, June 2017 – July 2017)
  - Observe and analyze advanced manufacturing processes of the static components of aeronautical engines.
- **ODTU TEKNOKENT Directorate of Entrepreneurship** – *Intern* (Turkey, August 2016 – September 2016)
  - Assist the directorate with the organization of the YFYI start-up acceleration program.
  - Facilitate communication and logistics between start-ups, mentors, and the directorate.

Education

- **Politecnico di Milano**, M. Sc. in Mechanical Engineering, Mechatronics and Robotics Track (2019 – 2023) **101/110**
  - Thesis Topic: Teleoperation of a 7 DoF Robot with a Wearable Device Capable of Multimodal Feedback (link)
  - List of Elective Courses Taken: Robotic Systems Design, Automatic Control A, Mechatronic Systems and Laboratory A, Electrical Drives for Industry and Trans- port 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:
    - METU Mechanical Engineering and Innovation Society: Active Member (2015 – 2019), Secretary General (2017–2018)
    - METU Foreign Policy and International Relations Club: EuroSimA Public Relations & Delegate Affairs (2015 – 2017)

Technical Skills

- **Advanced:** Arduino IDE, Unity 3D, MATLAB, Simulink, Simscape, LATEX, Microsoft Office
- **Upper Intermediate:** Autodesk Fusion 360, Inkscape, Processing IDE, ROS2

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- **Intermediate:** DOORS, Atlassian Tools, Adobe CC, Mathematica, Python, C, Raspberry Pi, Affinity Suite
- **Basic:** Solidworks CAD, Linux Command Line Shell Scripting, Zephyr OS Development, Embedded Systems

Language Skills

- Turkish: Native language
- English: Professional or bilingual proficiency
- Italian: Professional or bilingual proficiency
- German: Beginner