Okan Berhoğlu

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Experience

Teknopar Industrial Automation

Ankara, Turkey

Research and Development Engineer

February 2024 - Present

- Involved in research and development projects related to digital twin technologies and engaged in the process of data acquisition from CNC controllers besides from **OPC UA Server**.
- Integrated the MTConnect standard into data collection solution, which made the application faster.
- Worked with InfluxDB database.

Skills: C#

Candidate Research and Development Engineer

December 2022 - February 2024, 1 year 3 months

- Involved in research and development projects related to digital twin technologies and engaged in the process of data acquisition from CNC machines.
- Collaborated with a team on a project focused on the modeling of an electromechanical system in defense industry.

Skills: Python, Matlab

Research and Development Engineering Intern

May 2022 - December 2022, 8 months

• Participated in research and development projects that involve digital twin.

Skills: Matlab

Anova R&D Technologies

Ankara, Turkey

Mechanical Engineering Intern

May 2021 – August 2021, 4 months

Worked in manufacturing process and contributed to process improvement in manufacturing.

Projects

Digital Twin Approach to Design and Development of a Gimbal

- Developed as a proof of concept of the digital twin paradigm.
- Worked with ESP32 microcontroller, BLDC Gimbal motors, and IMU sensor within the project.
- Programmed the microcontroller to control the gimbal system and to be a REST API utilizing Arduino IDE and C programming language. Developed a web application within the project utilizing React.js and Three.js.

Laptop Stand Matlab App

- Developed a user-friendly Matlab app to enable every user to generate a 3D model in STL format of a laptop stand according to their preferred dimensions.
- Programmed a script for **3D topology optimization**, and its result is modeled by **Bezier surfaces** utilizing Matlab. For details: https://www.youtube.com/watch?v=4DD53ulCNdk

Portfolio Website

• Programmed by using **HTML**, **CSS**, and **JavaScript**. That contains my CV information. For details: https://okanberhoglu.github.io/PortfolioWebsite/

Information Sharing Website Backend

- Aim of the project is that people to publish articles about some topic to inform other people.
- Programmed utilizing Java Spring Boot and MySQL database.

Car Rental Website Backend

- Developed to enable people to rent a car from the website.
- Programmed utilizing C#, .Net and SQL server.

Education

TOBB Economics and Technology University

Ankara, Turkey

Bachelor of Science, Mechanical Engineering

2018 - 2023

Atatürk University

2021 - 2023

Remote

Associate degree, Computer Programming

Skills

Language: English (Intermediate), German (Elementary), Turkish (native)