Yaser Nahhas

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Nationality: Syrian, Turkish | Driving License: Valid

CAREER SUMMARY

An honor Control and Automation Engineering graduate from Yildiz Technical University, specializing in control design, PLC programming, and automation systems optimization. Experienced in developing AI models and executing industrial automation initiatives, I am committed to leveraging my expertise to enhance operational efficiency, safety, and innovation within dynamic engineering environments.

Work Experience

Automation Engineer Intern
OMASAKI OTOMASYON - Istanbul, Türkiye | Jul 2023 - Oct 2023
- Gained extensive experience with PLC systems (Omron, Siemens, Schneider Electric, Delta), enhancing operational efficiency through automation projects.
- Acted as a liaison, ensuring updated system tracking for product shortages and expected delivery, closely aligning with distribution and production departments.

Control and Automation Engineer Intern
PROSOFT KONTROL MÜHENDISLIK - Istanbul, Türkiye | Jul 2023 - Jul 2023
- Optimized automation projects using TIA Portal and WINCC, focusing on improving operational efficiency and system reliability, demonstrating a keen ability for technological solutions application.

Business Analyst Intern
MANA APPS - Istanbul, Türkiye | Feb 2023 – Feb 2023
- Implemented and customized Odoo ERP, optimizing business processes. Designed and deployed solutions across industries, showcasing proficiency in integration, troubleshooting, and data management.
- Achieved Odoo certification, demonstrating advanced proficiency in ERP system customization and module development.

EDUCATION

Yildiz Technical University - Istanbul, Türkiye
Bachelor's degree, Control and Automation Engineering (English) | Sep 2020 – Jun 2024
Honors Graduate (GPA: 3.04)

Projects

- **Efficiency and Control in Connected Autonomous Vehicles**
  In our graduate thesis, we optimized metropolitan bus systems using advanced autonomous technologies. We developed a comprehensive simulation environment with RoadRunner, Unreal Engine, and CARLA to enhance efficiency, safety, and sustainability. Key features included image recognition for traffic sign detection and the implementation of PID controllers for precise speed and steering regulation, demonstrating significant improvements in urban transportation through autonomous vehicle integration.

- **Self Balancing Bicycle**
  Developed a self-balancing bicycle using an Arduino Nano, NovaMax 6V 500RPM DC motor, and L298N motor driver. We combined continuous high-speed motor rotation, 3D printed components, and a reaction wheel for stabilization, with a PID controller for precise control. MATLAB and Simulink were used for algorithm development and real-time system simulation. This project advanced automated vehicular control by integrating mechanical robustness with sophisticated control strategies, enhancing safety and usability.

- **Hydroelectric Power Plant Project**
  Programmed controls for a hydroelectric power plant simulation, involving the management of analog and digital devices through PLCs and creating an HMI for effective system operation. This project showcased my practical skills in developing stable and safe control processes within a changing environmental context.

Certifications

- TIA Portal Master Project (Level 5)
- MATLAB Onramp, Simulink Onramp, Simscape Onramp
- Circuit Simulation Onramp, Control Design Onramp with Simulink
- Introduction to Programming with MATLAB
- Python Basics, Python Data Structures
- Odoo Certification

Skills

- Advanced PLC Programming, HMI/SCADA Systems, Industrial Communication
- Skilled in Control System Design and Optimization using MATLAB/Simulink
- Strong data management and analysis, proficient in MS Office, especially Excel
- Strong project management, problem-solving, and teamwork capabilities
- Experienced with ERP systems, particularly Odoo

Languages

- Arabic (Native)
- English (Advanced)
- Turkish (Fluent)