

Yigit Bugra Ocak

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Summary: Seeking an Engineer position that capitalizes on my ability to contribute to a team with my innovative and rational thinking abilities. Committed to showing excellent interpersonal, organizational, and problem-solving skills, including the ability to work effectively both independently and in a team or collaborative environment I maintain the aptitude and attitude to continue to learn. Authorized to work in the US and willing to relocate.

EXPERIENCE

Maintenance Technician II, Target - (April 2022 - Current)

General facility tasks also include preventative maintenance on conveyors, dock-levelers, scrubbers, fence/arm gates, motorized and non motorized facility doors. With the help of the shop tools the corrective maintenance and projects are completed. Created drafts for maintenance job plans including safety standards, verified/used LOTO related tasks, weekly ESIM verification, worked closely with contractors, helped with the inventory cycle counting and verification in Maximo. Proficient to use forklift, scissors lift, electric pallet jacks, scrubbers and burden carrier.

Mechatronics & Robotics Apprentice, Amazon - (March 2021 - February 2022)

Attended Vincennes University (VU) studying safety, electrical, mechanical, fluid power and PLCs. Attaining the knowledge and skills required to pass the PMMI certification exams. At course completion I passed the Ramsey Tech 2 exam. Progression in the mechatronics program was On Job Learning (OJL) which entailed traveling to Amazon warehouses and working on advanced conveyors, PLCs, VFDs, electrical motors, gearboxes, labeling, packing and sorting machines, and robotic equipment (H-Drive, P-Drive and FANUC arm). Performed maintenance in RME department as a Mechatronics Junior Technician (MJT). Experienced with Intelligrated, Vanderlande and Dematic equipment using PLC based InControlWare (ICW) and SCADA software.

Warehouse Associate, Amazon - (August 2020 - March 2021)

Contributed to the RIC2 facility in various departments with ranging tasks. Tasks included the single-stow, tote-to-bin and decanter processes of the inbound department. Trained to process standard picking and 3PE picking for the outbound department. Performed the workflow of receiving and stowing incoming stock and materials, picking and filling orders from stock to be delivered to customers.

Candidate Engineer, ASELSAN - (December 2019 - July 2020)

Researched the differences between Verilog-1995, Verilog-2001, SystemVerilog-2005 and SystemVerilog-2009 prior to training. Training included learning SystemVerilog utilizing Doulos and supplementary sources in order to advance in the verification process. Wrote verification codes and simulation using Questa by Mentor Graphics.

Engineering Intern, HAVELSAN - (August 2019 - September 2019)

Contributed to the project management department, complied with requirements of the contracts between HAVELSAN and current & future prospects. Responsibilities included checking reports for accuracy for compliance and audit purposes. At the time I reported as "solution and project engineer" for the current projects.

Engineering Intern, ASELSAN - (June 2019 - July 2019)

Created user interface for advanced scientific calculator and traffic light simulation using OOP in C#. Plus, designed serial port communication user interface between the power supply and the computer using OOP in C#. Created a design that is used for a communicative interface bidirectionally between the computer and the power supply.

Engineering Intern, TUPRAS - (July 2018 - August 2018)

Designed a project for TUPRAS' Kırıkkale Refinery's electrical workshop for automation, transformers and electrical motors. Observed electrical workshop with a group of electrical maintenance technicians and engineers both in field and electrical workshop. In the electrical workshop I designed and constructed the automation of the cranes, elevators and mechanical simple machines. I have utilized electrical components to complete the project by using my own drawings.

Engineering Intern, RST Technology - (June 2018 - July 2018)

Completed research and conducted analyses on Kalman filter and sound processing. A sound signal is processed using Fast Fourier Transform (FFT) and frequency filters in terms of frequency and amplitude. Fast Fourier Transform (FFT) and Fourier Transform were compared in terms of performance. Additionally, I designed a project by utilizing a Kalman filter that is designed to be used for GPS prediction of a car's movement and position in a tunnel by looking at its velocity and acceleration.

EDUCATION

Bachelor of Science(B.Sc.) - Electrical and Electronics Engineering, TED University (Ankara, Turkey) - Graduated in June 2020 - GPA 3.81/4.00 - Minor, Communication and Media Studies

SCHOLARSHIPS AND SUCCESSES

2017-2018 and 2018-2019 TED University Merit-Based Scholarship (%100 Scholarship)

2015-2020 TED University High Honor Student

LANGUAGES

Bilingual - (English - Expert, Turkish - Native)

LICENSES & CERTIFICATIONS

Full Stack Developer Bootcamp - February 2023

Essential Craft Skills Bootcamp - Sep 2021

Intelligrated MHE Training - Sep 2021

NFPA 70E - June 2021

OSHA 10-Hour Training - June 2021

Ramsay Tech II - Mechanical Aptitude Test - May 2021

PMMI Mechatronics: PLC - May 2021

PMMI Mechatronics: Fluid Power - May 2021

PMMI Mechatronics: Mechanical Components-Apr 2021

PMMI Mechatronics: Industrial Electricity - March 2021

SKILLS

ICW, SCADA, Microsoft Office, MATLAB, Lumerical FDTD Solutions, C#, Java, LTspice, Xilinx ISE WebPACK Design Software, AutoCAD, Adobe Illustrator, HTML, CSS, JavaScript, APIs, Node.js, Object Oriented Programming

PROJECTS

Voxelized Metasurface Micro Wavelength Monochromatic and Achromatic Focusing - Senior Project

Omnidirectional Cloaking in Micro Wavelength with Penrose Oriented Pattern - Senior Project

REFERENCES UPON REQUEST