OMER MUCAHIT, EIT

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EDUCATION

B.S., IN MECHANICAL ENGINEERING, MAY 2019 **August 2015 – May 2019**
University of North Carolina at Charlotte – Charlotte, NC
"Mechanical Engineer with passion for consumer electronics and programming."

PROFESSIONAL EXPERIENCE

INFORMETRIC SYSTEMS, Software Application Engineer **May 2022 – Current**
- Developing scalable pharma manufacturing reporting software (InfoBatch, InfoLog) using SQL, XSL, and HTML to adhere to GMP and enhance efficiency.
- Gathering user requirements for mapping manufacturing processes to automation systems; configuring/developing EBRs and qualification documents.
- Implementing software updates and hotfixes validation; setting up test environments, writing release tests, and conducting formal test procedures.

SCHINDLER ELEVATOR, Mechanical Engineer **September 2020 – May 2022**
- Creating mechanical design for upscale high-rise elevators for Iconic Buildings in North America & Canada
- Reading Architectural, Structural, and Mechanical drawings of the buildings to analyze design feasibility.
- Using AutoCAD, Revit, and Creo to edit or create custom electro-mechanical parts for high-rise elevator systems.

PIKE ENGINEERING, Substation Design Engineer **September 2019 – September 2020**
- Designed for 30+ substations using AutoCAD 2D, and lessened the total design time by 5%
- Learned, and applied design standards from Duke Power, and IEEE to corresponding designs
- Implemented LISP (AutoCAD programming language) algorithm to update the CAD library

INTERNATIONAL THERMODYNE LLC, Product Development Engineer **December 2017 – May 2019**
- Developed 220 lines of Python code, reducing 40 man-hours each month through task automation with Selenium
- Conducted mechanical design analysis and prototype development using Creo
- Created prototypes using 3D printing, and maintained 3D printers and its settings for optimal performance
- Researched, tested, and analyzed the feasibility, design, operation, and performance of equipment, components, and systems
- Offered crucial feedback to two managers and ten employees about the serviceability of essential products during weekly progress meetings

ER ELECTRONICS REPAIR, Electronics Repair Technician **August 2015 – September 2020**
- Diagnosed electrical problems; determined and implemented corrective actions that resulted in shorter repair time and longer device life
- Performed highly complex diagnostic and operational tests; evaluated results to determine next steps
- Repaired and replaced hardware for cell phones, including motherboards, motherboard components, LCD screens, and sensors

TECHNICAL EXPERIENCE

Senior Design Project, Project Leader **January 2018 – December 2018**
- Converted gas-powered lawnmower to electric-powered lawnmower
- Engineered a power transmission system compatible with 3-phase electrical motors
- Implemented a regenerative braking system to increase the usage time
- Conducted testing to match the drive feel of the gas-powered lawnmower to electric powered lawnmower
- Presented project to 50+ faculty and 300+ students, receiving best project and video awards.

Self-Balancing Robot, Controller Team Lead **August 2018 – December 2018**

- Engineered a Self-Balancing Robot with a remote controller
- Coded a closed loop (PID) algorithm in LabVIEW to autonomously control the robot

Junior Design Project, Coding and Electronics Team **January 2018 – May 2018**

- Designed a remote-controlled car to traverse obstacles and cut wires
- Utilized Arduino and C++ to control four servos and one dc motor with H-Bridge

Path Finding Robot, Team Leader **January 2018 – May 2018**

- Engineered a robot to move forward and turn autonomously
- Implemented A star algorithm in LabVIEW to autonomously maneuver through a complex maze using feedback from an ultrasound sensor, light sensor, infrared sensor, and touch sensor

ADDITIONAL INFORMATION

Languages: English, Turkish (bilingual)

Technical Proficiencies: Superb Computer skills, PLC Programming, Arduino, IoT, CAD (PTC Creo, SolidWorks, AutoCAD), MATLAB, LabVIEW, C++, Python, Microsoft Office (Word, Excel, PowerPoint), Robotics, ElectroMechanical Design