

Wallace Realini

Systems Engineer

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Professional Experience

Systems Engineer – Technical Lead

RTX Corporation – 2000 E El Segundo Blvd, El Segundo, CA 90245

2022-Current

- Designing, developing, and testing MATLAB ground software tools for diagnostics and statistical analysis of telemetry, corresponding graphical user interfaces, and centralized software utilities for a classified satellite telescope system
- Anticipating a future software failure, which would have resulted in customer's systems compatibility failure, proposed and developed an architectural solution, thus preventing RTX from failing to meet the requirements of a multi-million dollar contract
- Consulting subject matter experts and coordinating cross-team collaboration, created a software maintenance plan for the above mentioned proposed architecture
- Providing consultation for other teams within project seeking to integrate my software utilities

Electrical Engineer Intern

Metro Ports – 1027 Pier F Ave, Long Beach, CA 90802

2015-2016

- Leading project to digitize and organize all electrical, mechanical, and industrial drawings
- Assisting industrial engineer manager with managing and searching for drawings
- Proposing and developing automation software to facilitate future additions to the digital library

Project Summary

Senior Project

2021

- Designed and built a lucid dream mask prototype for DeVry University

Card Sorter Project

2019

- Designed and built robotic arm utilizing digital and analog components and image recognition software using OpenCV to automate sorting process as an independent project

Bulk List Generator

2016

- Developed and implemented Java application to automate the creation of drawing indexes in Microsoft Excel for ease of use and printing for Metro Ports project

Technical Skills Summary

Languages: Assembly, Arduino, C, C++, C#, Git, Java, Python

Software: AutoCAD, Azure AI, EAGLE, RSLogix, MATLAB, Microsoft Office, MultiSIM, VMWare, Wireshark

Equipment: digital multi-meter, oscilloscope, logic analyzer, spectrum analyzer, soldering iron

Education & Academic Accomplishments

Bachelor of Science in Engineering Technology-Electronics

December 2021

DeVry University



Engineering
Technology
Accreditation
Commission

Dean's List: Summer 2021 & Fall 2021

Relevant Coursework: Artificial Intelligence & Machine Learning, Automation & Control Systems, Circuit Analysis, Electronic Circuits & Devices, Embedded Microprocessor Systems, Mechatronics, Microprocessor Architecture & Interfacing, Signal Processing, & Wired, Optical, & Wireless Communication