Jonathan **Duarte**

Mechanical Engineer

United States

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Summary

Motivated person with a passion of designing, installing and testing electro mechanical systems. Adept at executing projects with proposed deadline and providing support to the leadership as per the needs of the organization. Highly proficient in mechanical drawing, system design & programming.

Skills

Key Skills	System Design, Mechanical Drawing, Team Work & Leadership, Report Generation, Product Development
Software	SOLIDWORKS, Tableau, Qlik, Jira, Confluence
Programming	Excel, Java, MATLAB, SQL
Mechanical Tools	Calipers, Depth Gauges, Micrometers, Multimeter, Sin Bar, Interferometer, Spectrometers

Experience

Symbotic *Wilmington, MA, USA*

Field Analyst (Contract) *April 2022. - July 2022*

- Employed visual and analytical processes with an entrepreneur like-minded team throughout the US with a focus on improving system performance for robot arms and Symbots on inbound cells, structure, and outbound cells
- Used Excel, SQL, and putty to collect, organize, analyze, and disseminate significant amounts of logs within the structure, cells, and Symbots to identify and show the systems that need more attention
- Performed analysis on anomaly detected Symbots on Jira to inspect physical parts for any signs of failure
- Incorporated Tableau and Qlik to verify the number of Symbots that were frequently wrangled, alarmed, generated suspects, and disconnected against the data self-created in the AOB, MIB, AIB and Symbot Metric KPI

FLIR Systems, Inc. *Marlborough, MA, USA*

Mechanical Design Engineer (Contract) *August 2019 - May 2020*

- Planned and executed blueprints and technical drawings to new company template for state-of-the-art high-capacity infrared optic-mechanical systems, increasing industrial output by 20%
- Interpreted and implemented optic-mechanical designs through tolerance analysis on ASME Y14.5-2009 within a variety of programs simultaneously.
- Managed engineering change notice process while liaising with manufacturing operations

Personal Projects

Portfolio Website

HTML, CSS, JavaScript *May 2019*

- Designed a responsive personal portfolio to showcase my skills and abilities within the mechanical engineering field.
- Utilized Font Awesome, wow.js and smooth scroll to beautifully capture browsing in all screen sizes.

SOLIDWORKS Improved Robot Assembly

MATLAB, SOLIDWORKS *March 2019*

- Designed a 4 linked 1/3 scale industrial arm robot that performed a pick and place kinematics simulation.
- Created a MATLAB GUI interface that sent lateral, longitudinal, and angular commands to the robot.

Education

University of Notre Dame *Notre Dame, Indiana, USA*

B.S. in Mechanical Engineering *2015 - 2018*

- Participated in 3:2 Program Engineering partnership with Assumption College and Notre Dame

Assumption College *Worcester, Massachusetts, USA*

B.A. in Mathematics *2012 - 2015*