

ISAAC P. LYAUTEY

OBJECTIVE

A technical engineering position for April 2021.

WORK EXPERIENCE

Period	January 2019 — August 2019	Period	January 2020 — August 2020
Employer	Quest Global	Employer	Howmet Aerospace
Location	Windsor Locks, Connecticut	Location	Niles, Ohio
Job Title	Industrial Engineer	Job Title	Process Engineer
<ul style="list-style-type: none">• Labor Variance & Capacity Collected the production demand, clock hours and part routings to map predicted vs actual labor times across all operations in all cells. Data was collected and compiled into a SQL database and through various manipulations produced an view for PowerBi interaction.• Part Tracking Identified cells in which improved part tracking could be implemented. Then implemented an automated framework for part tracking and progression using SQL, C# and VB.NET.• Rate Board Rate Board interface displayed the priority for specific part numbers, stage in the process, and how long in WIP. This was implemented with a scanner & touchscreen interface.• Playbook & Task Scheduling Facilitated factory-wide events to analyse the production-pacing process and find ways to improve productivity. Improvements included ergonomic adjustments, improved fixtures, layout adjustments and per-shift scheduling.		<ul style="list-style-type: none">• In Process Checks Grind process featured high dimensional variability causing out of tolerance conditions. Created and implemented Standard Work Procedure in previously un-controlled process to reduce said variability.• Operator Training Replaced in-process engineering checks with SWP defining expectations of the process, common defect scenarios and defined escalation paths when tolerance is endangered.• Automated Engineering Diagrams Reduce engineering overhead by automating drawing creation which was originally done with drawing PowerPoint. A C# & WPF tool was created which drew saw cutting diagrams using user input dimensions. The charts were then output to PowerPoint/.PDF files for printing.• Automated Inspection Data Collection Work with dimensional inspection operators to create a streamlined data entry interface which reduced input error and increased readability over the old system both on the operator's end and engineering's. This app incorporated WPF, EF, and SharePoint.	
PERIOD	August 2015 — October 2018		
EMPLOYER	Delmonico's Italian Steakhouse	Rochester, New York	

NOTABLE PROJECTS

INCLUSIVITY	• Design a production ready handicapped assistive device in a structured team environment.
RETRACTABLE	• Interface with customer for use case, design requirements and necessary standards.
GAME NET	• Rapid prototyping of CAD models through use of 3D printed plastics entailing unique dimensional tolerancing.

EDUCATION

PERIOD	August 2018 — Present	Graduation	March 2021
DEGREE	Bachelor of Science in Mechanical Engineering	GPA	3.14
SCHOOL	Rochester Institute of Technology	Rochester, New York	
CLASSES	Fluid Mechanics I/II	Classical Controls	Senior Design
	Heat Transfer I	Mechanical Design & Prototyping	Engineering Applications Design Lab
	Material Science	Mechanics of Materials	Statics
			Dynamics
			Probability & Statistics I/II
PERIOD	August 2015 — May 2018	GPA	3.25
DEGREE	Associates in Engineering Science	School Monroe Community College	

SKILLS

PROTOTYPING	3D Printing, CNC Programming, Arduino Microcontroller, RPi, Waterjet, Welding, Soldering	Manufacturing	Ultrasonic Non-Destructive Testing, Dimensional Inspection, Grinding, Lathe, Mill, Paint Application
TOOLS	Excel, Matlab, PowerBi, SAP, SharePoint	CAD	Solidworks, AutoCAD, PTC Creo, Onshape
COMPUTER LANGUAGES	C#, VB/A, Python, SQL, Java	Other	Linux, Git

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