Isaac P. Lyautey

Objective

Obtain a result driven position in process/manufacturing engineering with which I can work with and lead cross-functional teams utlizing proven business and product optimization skills of Total Productive Management in order to acheive a high degree of quality, safety and a Lean Six Sigma culture.

Work Experience

Period	**June 2021 — Present**
Employer	**Huhtamaki Inc.**
Location	**Fulton, NY**
Job Title	**Continuous Improvement Specialist**

- Six Sigma Green Belt

  Lead 2 Six Sigma teams, one tackling a printing process focusing on improving OEE by reducing scrap and non-value-added material use (110k YOY); The other team tackled productivity discrepancies between generations of forming equipment leading to large gains in sharing of ideas (est. YOY >76k)

- Various Process Improvements

  Improvements to process controls include oil tank monitoring systems, automation of clerical duties and leading a Process Control Systems rollout in all departments. PCS includes a combination of real-time machine performance and safety/quality/MEI reports displayed using Osisoft PI Vision.

- Total Productive Maintenance Leader

  Lead 1 Kaizen/Lean event targeting a machine with high oil consumption (YOY 11k) which was heavily driven through teamwork between operations and maintenance staff.

- Data Analyst

  Because of a strong background in data querying, aggregation and analytics learned through experience in software engineering and statistical research I was tasked with backfilling the Operations Analyst position while a replacement was sought for 4 months. Tasks included production reporting corrections by use of analytics, monthly MEI roundups and training of new-hire.

Period	**January 2019 — August 2019**
Employer	**Quest Global**
Location	**Windsor Locks, Connecticut**
Job Title	**Industrial Engineer Co-op**

- 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 a view for PowerBi interaction.

- Playbook & Task Scheduling

  Facilitated factory-wide events to analyze the production-pacing process and find ways to improve productivity. Improvements included ergonomic adjustments, improved fixtures, layout adjustments and per-shift scheduling.

- 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.

Period	**January 2020 — August 2020**
Employer	**Howmet Aerospace**
Location	**Niles, Ohio**
Job Title	**Process Engineer Co-op**

- In Process Checks

  Grind process featured high dimensional variability causing out of tolerance conditions. Created and implemented Standard Work Procedure in previously uncontrolled 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 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.

Education

Period	**August 2018 — May 2021**		Graduation **March 2021**	
Degree	**Bachelor of Science in Mechanical Engineering**		GPA **3.51**	
School	**Rochester Institute of Technology**		Rochester, New York	
Classes	Fluid Mechanics I\II	Classical Controls	Senior Design	Thermodynamics
	Heat Transfer I	Mechanical Design & Prototyping	Engineering Applications Design Lab	Dynamics
	Material Science	Mechanics of Materials	CFD	Stochastic Processes	Probability & Statistics I\II

Skills

Prototyping	3D Printing, CNC Programming, Arduino Microcontroller, RPi, Water Jet, Welding, Soldering	Manufacturing	Ultrasonic Non-Distructive Testing, Dimensional Inspection, Grinding, Lathe, Mill, Paint Application
Tools	Excel, Matlab, PowerBi, SAP, SharePoint, PI (Osisoft), PI Vision, BPCS	CAD	Solidworks, AutoCAD, PTC Creo, Onshape
Computer Languages	C#, VB/A, Python, SQL, Java	Other	Linux, Git

1814 W Genesee St · Syracuse · New York · 13204

✉ isaac.lyautey@gmail.com ☎ (585) 773–5686