Isaac P. Lyautey

Objective

Obtain a result driven position in process/manufacturing engineering as part of a cross-functional team utlizing a proven business strategy of Total Productive Management in order to acheive a high degree of safety, quality, & efficiency.

Work Experience

Period	**June 2022 — Present**
Employer	**Eastman Kodak**
Location	**Rochester, NY**
Job Title	**Equipment Reliability Engineer**

- Autonomous Maintenance & Process Control

  Implemented cleaning routines on battery coater reducing process waste. Lead operators educated on indicators poor process control and provided guidance through CAGs and SOPs to correct poor conditions. Conditions out of norm are escalated to maintenance staff or engineering as necessary. Turned firefighting into teaching events with documentation and guidance reducing reliance on support staff.

- Machine Spare Parts

  Designed and implemented spare parts storage system with inventory tracking. Identified critical machine spares broken down by cost vs. potential downtime. Participated in price negotiations on capital orders.

- Digitial Factory

  Pi Vision displays have been created and brought to shop floor monitors which are actively used for process control and autonomous maintenance activities. This includes displays at control panels and larger overhead displays. Exposed process information through Pi Vision to operations and maintenance staff identifying key process parameters.

- Data Analysis and Automation

  Created automation program in Python to collect and merge process (Pi and Dr. Schenk) data with quality bench data. Demonstrated ability to analyze aggregate process data and drive improvement through statistical tests and quality metrics such as t-tests, ANOVA tests and CpK calculations. Worked with Quality Engineer and Technician to automate and streamline COA process reducing overhead. Fulfilled data requests of Quality Engineer and customer for: Defect size and type Pinhole count correlation to defect map Registration analysis and comparisons before and after process changes

Period	**June 2021 — June 2022**
Employer	**Huhtamaki Inc.**
Location	**Fulton, NY**
Job Title	**Continuous Improvement Specialist**

- Six Sigma Green Belt

  Lead 2 Six Sigma teams, the first tackling a printing process focusing on improving OEE by reducing scrap and non-value-added material use; The second team tackled productivity discrepancies between generations of forming equipment leading to large gains in sharing of ideas.

- 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 a Kaizen/Lean event targeting a machine with high oil consumption which was heavily driven through teamwork between operations and maintenance staff. Through regular meetings of a cross-functional team multiple high yield opportunities were identified, trialed on the worst offending equipment and then dispursed to the entire fleet yielding COGS improvement.

- 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 & Part Tracking

  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. 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 & Operator Training

  Created and implemented Standard Work Procedure in previously uncontrolled process to reduce said variability. 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

Degree	**Bachelor of Science in Mechanical Engineering**	School	**Rochester Institute of Technology**
Period	**August 2018 — May 2021**	GPA	**3.51**

Classes: Classical Controls, CFD, Fluid Mechanics I\II, Stochastic Processes, Probability & Statistics I\II

Skills

Prototyping	3D Printing, CNC Programming, Arduino Microcontroller, RPi, Water Jet, Welding
Tools	Excel, Matlab, PowerBi, SAP, SharePoint, PI, PI Vision, PI AF
Languages	C#, VB/A, Python, SQL, Java
Manufacturing	Ultrasonic Non-Distructive Testing, Dimensional Inspection, In-line defect detection & classification, Web Guidance, Conveyance
CAD	Solidworks, AutoCAD, PTC Creo, Onshape
Other	Linux, Git

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