Isaac P. Lyautey

Objective

An engineering COOP from late January to early August.

Work Experience

Period	January 2019 — August 2019	
Employer	Quest Global	Windsor Locks, Connecticut
Job Title	Industrial Engineer	

- 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. I focused on cells which relied on one-another in sequence and created an automated framework for part tracking and progression using SQL, C# and VB.NET.

- Rate Board
  - Created an app for operators to progress a part through the part tracking framework. This interface used WinForms and Entity Framework to pull data and display it on screen.
  - Rate Board interface displayed the priority for specific part numbers, their stage in the process, and how long they've been in WIP. This was implemented with a scanner & touchscreen setup for operator ease of use. The software recorded operation timings to verify labor standards.

- Playbook & Task Scheduling
  - Participated in a factory-wide event to analyse the production-pacing process and find ways to improve its productivity. Here the constraint was found and after improvements productivity increased ~30%. Improvements included ergonomic adjustments, improved fixtures, layout adjustments and per-shift scheduling.

Period	August 2015 — October 2018	
Employer	Delmonico's Italian Steakhouse	Rochester, New York
Job Title	Waitstaff/Kitchen	

Education

Period	August 2018 — Present	
Degree	Bachelor of Science in Mechanical Engineering	
Graduation	June 2021	
GPA	3.63	
School	Rochester Institute of Technology	Rochester, New York

Classes			
Fluid Mechanics	System Dynamics	Applied Statistics	Thermodynamics
Heat Transfer I	Mechanical Design & Prototyping	Engineering Design Lab	Excel
Material Science	Matlab	Mechanics of Materials	Statics	Dynamics

Period	August 2015 — May 2018	
Degree	Associates in Engineering Science	
GPA	3.25	
School	Monroe Community College	Rochester, New York

Skills

CAD	Solidworks, AutoCAD, PTC Creo
Tools	Excel, Matlab, Mathematica, PowerBi, SAP
Computer Languages	C#, VB/A, Python, SQL, Java