Andrés Estrada Plata
INDUSTRIAL AND SYSTEMS ENGINEER

General Information

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Citizenship:	Mexican
DOB:	22 de diciembre, 1996

Interest Areas

Business Intelligence, Data analysis, Information Systems, Quality Assurance, Control Systems.

Profile

Focused on achieving defined goals as a team through in advanced planning and correct execution. I am interested in developing new skills in data analysis and information systems that are capable of translating an understanding of what is actually happening and giving us a viable and suitable solution.

Looking forward to work with multidisciplinary teams and develop new skills to improve team performance.

Education

- **Bootcamp Certification**: A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning. (2021)
- **Bachelor's Degree:** Industrial and Systems Engineering at Tecnológico de Monterrey Campus Toluca (2015-2019)
- **Study abroad** at Cologne Business School, Cologne, Germany (2018)
- **Facilitator** in the Spanish Immersion Program, Sister Cities, Fort Worth, Texas (Summer 2017)
- **Bachelor**: Instituto Tecnológico y de Estudios Superiores de Monterrey Campus Toluca, Bilingual Program. Honorific mention. (2012-2015)

Professional Experience

Vitro Envases **- Process Control Engineer Quality Assurance**
November 2020 – Now

Ensure, measure and control different variables of temperature, speed, times and physical conditions of the process, as well as requirements of material, documents, tools or supplies that the process requires. Design and development of systems that allow the process to be measured and controlled more precisely, all coming from the data analysis.

Vitro Envases – **Development Engineer**
January 2020 – November 2020

Explore operative processes searching for opportunity areas, during this period, I have collaborated in different team scenarios trying to develop an easier and more effective way to do the certain activities. We

designed and measure different KPI´s in order to understand the performance of our partners and collaborators day by day.

Efficiency, Dead Time and Package by shift

- Development of a Visual Basic system that presents a data entry for 64 workers, the data is saved in an internal network, it is analyzed through pivot tables and then the data is projected in a dashboard that presents the monthly results of each worker. Dashboard includes:
  - o Worker performance day by day.
  - o Worker performance between day-afternoon-night shifts.
  - o It also compares workers performance from different groups that work in the same production line and work with the same products.

Comunication and alert system

- Developed for the glass bottle process, the communication system alert quality inspectors from any deviation detected in the process; the system understands the distribution of different glass bottles in a Temper mesh, before the product is inspected, the system reproduces an alert to the person who is going to evaluate the quality of the product in advance. This gives our team, the opportunity for being more preventive and more effective in our inspection and improving our quality assurance.

Production Control System

- Development of a PHP system that allow the quality area to register each released pallet and forecast the hour and day the requisition will be fulfilled; this allows different services areas to prepare and we aware for the job change.

Average Arrival Time

- Visual Basic system that registers the arrival time when a person writes down its username and clicks a save button, this data is analyzed with pivot tables and present an average arrival hour and also evaluate from all registered arrivals, the percentage that have arrived "on time" (10 min before shift change). Also, a pivot chart analyzes the impact that day, afternoon and night shifts have in people arriving earlier.

Vitro Envases **– Package Procurement Internship Improving project for resource management**
August 2019 - December 2019

Languages

- Español (Nativo)
- English (Avanzado) Puntaje TOEFL (2017): 587/677
- German (Básico) Nivel A1, 2018

Paquetes computacionales

- MS Office Word, Excel Advance (Macros), Power Point (+4 years)
- R (+1 year)
- SQL (Basic)
- SAP – Recognition Award Certificate (2019)
- Premiere Pro (+4 years)

Personal references available