

# ALI LARA

[alilarag@mail.com](mailto:alilarag@mail.com) • (614) 440-6494 • [aliglara @ LinkedIn](#) • Austin, TX

## SUMMARY

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## EXPERIENCE

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### Process Assistant, Amazon, Austin, TX

Mar 2023 – present

- Led a 35-member team aimed at developing an effective inbound system for 70k+ packages daily
- Streamlined the workflow established by the leading team to improve the performance of our team in a safe environment
- Implemented the daily workflow to ensure the performance of L1-team is efficient and cost-effective in a safe environment
- Employ quantitative analytical real-time tools to monitor the manufacturing process
- Performed continuous evaluation of work methods, procedures, and policies and made recommendations for improvements to the leadership team

### Yard Marshal, Amazon, Columbus, OH

Dec 2021 – Mar 2023

- Daily construction and maintenance of an inbound/outbound workflow to ensure a continuous site operation
- Led a 10-member team aimed at developing efficient loading/unloading system for 40k+ of packages daily
- Communicated with both dispatches and inbound/outbound drivers to ensure on-time arrivals and departures
- Analytically managed physical and virtual check-in procedures for an average of 15 linehauls to guarantee they could be unloaded safely and escalated any safety concerns to management
- Conducted daily audits on the dock to assure strict adherence to Amazon procedures as well as local and DOT safety regulations
- Maintained and updated electronic and hard copy records of inbound and outbound deliveries in real-time

### FC Associate, Amazon, Columbus, OH

Nov 2020 – Dec 2021

- Increased the average rate from under 200 units per hour by 40% or greater by coaching under-performing associates daily to meet production goals and exceeded standards
- Exceed over 379 expected UPH, while the building average stow rate was 250, 500+ was reached which represents being at the 95th percentile
- Processed hazardous materials following all federal and local EPA/RCRA standards for handling, classifying and shipping hazardous waste
- Processed damaged packages for repacking, hazmat, returns, and third-party contractor shipping
- Coached Day-1 and Week-1 associates to orient them to the station layout, standards of work, and safety culture

### Machine Learning Engineer II, MCL Control, Venezuela

May 2012 – Sep 2019

- Served as Team Leader from design to execution of machine learning algorithms to develop predictive models and optimize the performance of advanced control process algorithms for rotary industrial machinery
- Managed data-driven solutions team of three researchers, identified vulnerabilities, tested solutions, established standardized workflow, and executed programs in oil/gas industry
- Constructed neural network models in Python/Tensorflow to estimate theoretical physical parameters required by process simulations built on Aspen Hysys to improve the application performance
- Managed a 10-junior engineers' team over a one-year period and coached them on using XGBoost and random forest models to optimize the feature selection, via ROC/AUC metrics, for proposed machine learning solutions
- Executed more than five process simulation models per year, performing optimization studies, and preparing technical papers and presentations
- Gathered information, identified analytical requirements, and developed data-driven based models to translate complex business needs into actionable analytic projects
- Developed an assistive tool to perform HAZOP studies based on autoregressive models and machine learning techniques in compliance with design specifications
- Designed and implemented machine learning models to detect problems and predict failures using deep learning techniques, primarily for turbo-compressors and turbfans

### Researcher, Universidad Central of Venezuela, Venezuela

Mar 2005 – Nov 2020

- Researched chemical reaction engineering, mathematical modeling, simulation and optimization, process synthesis and design including economic assessments, process integration, and machine learning techniques for industrial

- process evaluation
- Lectured in several chemical engineering areas including thermodynamics, chemical reactor design, numerical methods, industrial process simulation, and statistical modeling
- Implemented a problem-solved learning experience in different subjects following the ABET guidance.
- Coached 200+ chemical engineering undergraduates with regards to academic pathways and toward degree completion and established and provided career counseling for a network of cooperatives, internships, and externships to foster academic to industry pipeline
- Mentored students throughout the process, developed semesterly goals and advised on study abroad opportunities based on the double-degree program of the Politecnico di Torino, and Sapienza University of Rome (Italy), IFP School (France), IESA School of Management (Venezuela), and Florida International University (USA)

## PROJECTS

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### Miss Direction

Aug 2016

A mapping engine that misguides you:

- Won award at AIHacks 2016
- Built by all women team of newbie programmers
- Using modern technologies such as GoogleMaps, Chrome Extension and Javascript

## EDUCATION

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DataCamp.com, Python for Data Scientist

2017

Universidad Central of Venezuela, M.Sc. Chemical Engineering

2005 – 2008

Universidad Central of Venezuela, B.Sc. Chemical Engineering

1990 – 1998

## SKILLS

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- Process modeling: Statistical modeling, Matlab, Hysys
- Data Analysis: Excel, SQL, noSQL, Tableau
- Machine learning: Python, R, Tensorflow