



Alec Hoffman

Process Engineer

Info

Address

1515 Pacific Ave, Los Angeles,
CA 90291, United States

Phone

(541) 754-3010

Email

email@email.com

Place of birth

San Antonio

Nationality

American

Driving license

Full

Links

[Zoominfo](#)

[Linkedin](#)

Skills

Programmable Logic
Controllers



Process Automation



Process Capability



Commercialization Activities



Process Innovation



Production Start-up



Bench Scale



Profile

Deadline focused Process Engineer with extensive tenure in engineering principles, project leadership, and taking responsibility for safety procedures. Strategic thinker emphasizing on improving efficiencies by assessing and enhancing processes. Holds a Professional Engineering Certification and spearhead all new product and process improvement projects for the medical device product channel in the group.

Employment History

Process Engineer, Algorax

Jan 2020 – Present 📍 Newport

Spearheaded a project to reduce site water consumption by improving water recycling system which decreases water expenditure by 30%

- Develop, configure and optimize plant manufacturing processes from inception through to, pilot, start-up launch and commercialization
- Assess and evaluate processings, taking measurements of specific variable metrics to interpret data and make assumptions about process efficiency and effectivity
- Design, run test and upgrade or enhance systems and processes
- Design and develop specific procedures and methodologies to improve manufacturing processes and realign purchasing methodologies with the need of the organization
- Develop best practices, routines, and innovative solutions to boost production rates and output quality

Process Engineer, AOH Refineries

Jan 2017 – Dec 2019 📍 Austin

Led a cross-functional team to streamline the material movement process and to decrease shut downtimes by ten days per quarter which saved the business \$2M rand in savings for the year

- Conduct process simulations
- Manage expenses and time constraints by using Six Sigma Lean Manufacturing Principles
- Perform risk assessments to find solutions in mitigating external and internal risks to the business
- Design process documentation, operating instructions and product manufacturing specification manuals

Process Engineer, BATS

Jan 2014 – Dec 2016 📍 Albertville

Instrumental in commissioning a 200 million dollar greenfield plant within six months

- Create process models and apply them to a test scenario to check for efficiency and effectiveness and use result indicators to define key figures of effectiveness

Gap Analysis



Statistical Process Control (SPC)



RIE/Kaizen



Cause-and-Effect Diagrams



Project management



Design of Experiments (DOE)



Value Stream Mapping



Visual Factory



Pull Systems



Process Validation



Sampling Methods



Exchanger Design



Engineer's Aide Sinet



Mistake Proofing



Batch Scale



Production Scale-up



Project Phases



Screening



APQP



APQP,



Instrumentation




Geometric Dimensioning



- Prepare target vs. actual comparisons
- Analyze workflows within departments to identify opportunities for integration and improved collaboration
- Review the KPI monitoring system, once in a quarter to check performance outcomes of team members in the division
- Translate analytical findings into strategic solutions for business

Education

National Council of Examiners for Engineering and Surveying (NCEES),
Professional Engineering (PE) Exam


Jan 2019 – Jun 2020  Jacksonville

Dalhousie University, Process Engineering for Control Practitioners
Certificate


Jun 2020 – Jun 2020  Storrs

Course Curriculum: Thermodynamics, Transport Phenomenon, Kinetics, Mathematical Models, Data Science, Machine Learning

New York University, Master's in Bio-Chemical Engineering

Jun 2016 – Jun 2018  Manhattan

University of Texas, Bachelor's Degree in Chemical Engineering

Jan 2011 – Oct 2015  Dallas

Courses

Quality Process Analyst Certification, American Society for Quality,
Milwaukee

Sep 2019 – Jan 2020

Certified Associate in Project Management (CAPM) , Project Management
Institute (PMI), Newtown Square, PA

Jan 2018 – Aug 2018

PPAP



Quality Systems



Feasibility Studies



Process Solutions



Continuous Scale



Pilot Plant



Phase Dispersion Modeling



Poka Yoke



Languages

English



French



German



Hobbies

Art, Fusion Cooking, Literature