



# Alec Hoffman

Process Engineer

## 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 at Algorax, Newport

January 2020 — Present

*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 at AOH Refineries, Austin

January 2017 — December 2019

*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 at BATS, Albertville

January 2014 — December 2016

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

## Details

1515 Pacific Ave, Los Angeles, CA 90291, United States, (541) 754-3010

[email@email.com](mailto: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

Gap Analysis

Statistical Process Control (SPC)

RIE/Kaizen

Cause-and-Effect Diagrams

Project management

Design of Experiments (DOE)

Value Stream Mapping

Visual Factory

- 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
- 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

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

January 2019 — June 2020

### Process Engineering for Control Practitioners Certificate, Dalhousie University, Storrs

June 2020 — June 2020

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

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

June 2016 — June 2018

### Bachelor's Degree in Chemical Engineering, University of Texas, Dallas

January 2011 — October 2015

## 🎓 Courses

### Quality Process Analyst Certification, American Society for Quality, Milwaukee

September 2019 — January 2020

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

January 2018 — August 2018

## 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

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