

# Alec Hoffman



## Process Engineer

<b>Address</b>	1515 Pacific Ave, Los Angeles, CA 90291, United States	<b>Phone</b>	(541) 754-3010
<b>Email</b>	email@email.com	<b>Place of birth</b>	San Antonio
<b>Nationality</b>	American	<b>Driving license</b>	Full
<b>Links</b>	<a href="#">Zoominfo</a> , <a href="#">Linkedin</a>		

## 01 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.*

## 02 EMPLOYMENT HISTORY

01/2020 — Present

### Process Engineer at Algorax

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

01/2017 — 12/2019

### Process Engineer at AOH Refineries

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

01/2014 — 12/2016

### Process Engineer at BATS

Alberville

*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
- 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

### **03 EDUCATION**

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Jan 2019 — Jun 2020

**National Council of Examiners for Engineering and Surveying (NCEES)**

*Jacksonville*

Professional Engineering (PE) Exam

Jun 2020 — Jun 2020

**Dalhousie University**

*Storrs*

Process Engineering for Control Practitioners Certificate

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

Jun 2016 — Jun 2018

**New York University**

*Manhattan*

Master's in Bio-Chemical Engineering

Jan 2011 — Oct 2015

**University of Texas**

*Dallas*

Bachelor's Degree in Chemical Engineering

## 04 SKILLS

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Programmable Logic Controllers	● ● ● ● ●	Engineer's Aide Sinet	● ● ● ● ●
Process Automation	● ● ● ● ●	Mistake Proofing	● ● ● ● ●
Process Capability	● ● ● ● ●	Batch Scale	● ● ● ● ●
Commercialization Activities	● ● ● ● ●	Production Scale-up	● ● ● ● ●
Process Innovation	● ● ● ● ●	Project Phases	● ● ● ● ●
Production Start-up	● ● ● ● ●	Screening	● ● ● ● ●
Bench Scale	● ● ● ● ●	APQP	● ● ● ● ●
Gap Analysis	● ● ● ● ●	APQP,	● ● ● ● ●
Statistical Process Control (SPC)	● ● ● ● ●	Instrumentation	● ● ● ● ●
RIE/Kaizen	● ● ● ● ●	Geometric Dimensioning	● ● ● ● ●
Cause-and-Effect Diagrams	● ● ● ● ●	PPAP	● ● ● ● ●
Project management	● ● ● ● ●	Quality Systems	● ● ● ● ●
Design of Experiments (DOE)	● ● ● ● ●	Feasibility Studies	● ● ● ● ●
Value Stream Mapping	● ● ● ● ●	Process Solutions	● ● ● ● ●
Visual Factory	● ● ● ● ●	Continuous Scale	● ● ● ● ●
Pull Systems	● ● ● ● ●	Pilot Plant	● ● ● ● ●
Process Validation	● ● ● ● ●	Phase Dispersion Modeling	● ● ● ● ●
Sampling Methods	● ● ● ● ●	Poka Yoke	● ● ● ● ●
Exchanger Design	● ● ● ● ●		

## 05 COURSES

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Sep 2019 — Jan 2020

**Quality Process Analyst Certification at American Society for Quality, Milwaukee**

Jan 2018 — Aug 2018

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

## 06 LANGUAGES

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English	● ● ● ● ●	German	● ● ● ● ●
French	● ● ● ● ●		

## 07 HOBBIES

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Art, Fusion Cooking, Literature