



# Alec Hoffman, Process Engineer

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## DETAILS

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

## PLACE OF BIRTH

San Antonio

## NATIONALITY

American

## DRIVING LICENSE

Full

## LINKS

[Zoominfo](#)

[LinkedIn](#)

## SKILLS

Programmable Logic  
Controllers

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Process Automation

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Process Capability

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Commercialization  
Activities

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Process Innovation

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Production Start-up

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Bench Scale

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Gap Analysis

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Statistical Process Control  
(SPC)

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RIE/Kaizen

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Cause-and-Effect  
Diagrams

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Project management

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## 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
- 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

Design of Experiments (DOE)

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Value Stream Mapping

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Visual Factory

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Pull Systems

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Process Validation

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Sampling Methods

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Exchanger Design

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Engineer's Aide Sinet

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Mistake Proofing

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Batch Scale

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Production Scale-up

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Project Phases

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Screening

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APQP

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APQP,

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Instrumentation

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Geometric Dimensioning

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PPAP

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Quality Systems

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Feasibility Studies

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Process Solutions

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Continuous Scale

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Pilot Plant

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Phase Dispersion Modeling

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Poka Yoke

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## LANGUAGES

English

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French

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German

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## HOBBIES

Art, Fusion Cooking,  
Literature