



# Alec Hoffman

PROCESS ENGINEER

## Details

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

American

### DRIVING LICENSE

Full

### PLACE OF BIRTH

San Antonio

## 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

## 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, 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, 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, BATS, Albertville

JANUARY 2014 – DECEMBER 2016

*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

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

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

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

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

