



# Alec Hoffman

## Process Engineer

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🔗 [Zoominfo](#), [LinkedIn](#)

### Place of birth

San Antonio

### Nationality

American

### Driving license

Full

### 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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Design of Experiments (DOE)

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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, 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

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

PPAP

Quality Systems

Feasibility Studies

Process Solutions

Continuous Scale

Pilot Plant

Phase Dispersion Modeling

Poka Yoke

## Languages

English

## 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

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

French



German



**Hobbies**

Art, Fusion Cooking,  
Literature