



Alec Hoffman

PROCESS ENGINEER

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Details

Driving license

Full

Nationality

American

Place of birth

San Antonio

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

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

Links

[Zoominfo](#) [Linkedin](#)

Skills

Programmable Logic Controllers



Process Capability



Process Innovation



Bench Scale



Statistical Process Control (SPC)



Cause-and-Effect Diagrams



Design of Experiments (DOE)



Visual Factory



Process Automation



Commercialization Activities



Production Start-up



Gap Analysis



RIE/Kaizen



Project management



Value Stream Mapping



Pull Systems



Process Validation



Exchanger Design



Mistake Proofing



Production Scale-up



Screening



APQP,



Geometric Dimensioning



Quality Systems



Process Solutions



Pilot Plant



Poka Yoke



Sampling Methods



Engineer's Aide Sinet



Batch Scale



Project Phases



APQP



Instrumentation



PPAP



Feasibility Studies



Continuous Scale



Phase Dispersion Modeling



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

Languages

English



French



German



Hobbies

Art, Fusion Cooking, Literature