

Alec Hoffman

Process Engineer



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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

Jan 2020 – Present

[NEWPORT](#)

Process Engineer

Algorax

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

Jan 2017 – Dec 2019

[AUSTIN](#)

Process Engineer

AOH Refineries

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

Jan 2014 – Dec 2016

Process Engineer

BATS

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

Jan 2019 – Jun 2020

JACKSONVILLE

National Council of Examiners for Engineering and Surveying (NCEES)

Professional Engineering (PE) Exam

Jun 2020 – Jun 2020

STORRS

Dalhousie University

Process Engineering for Control Practitioners Certificate

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

Jun 2016 – Jun 2018

MANHATTAN

New York University

Master's in Bio-Chemical Engineering

Jan 2011 – Oct 2015

DALLAS

University of Texas

Bachelor's Degree in Chemical Engineering

Skills

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	● ● ● ● ●
	● ● ● ● ●	Quality Systems	● ● ● ● ●
		Feasibility Studies	● ● ● ● ●
			● ● ● ● ●

Project management		Process Solutions	
Design of Experiments (DOE)		Continuous Scale	
Value Stream Mapping		Pilot Plant	
Visual Factory		Phase Dispersion Modeling	
Pull Systems		Poka Yoke	
Process Validation			
Sampling Methods			
Exchanger Design			

Courses

Sep 2019 – Jan 2020

Quality Process Analyst Certification
American Society for Quality, Milwaukee

Jan 2018 – Aug 2018

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

Languages

English		German	
French			

Hobbies

Art, Fusion Cooking, Literature