

Alec Hoffman, Process Engineer

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Place of birth	San Antonio	Driving license	Full
Nationality	American		

LINKS [Zoominfo](#), [LinkedIn](#)

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 **Process Engineer, Algorax** 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

Jan 2017 — Dec 2019 **Process Engineer, AOH Refineries** 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

Jan 2014 — Dec 2016 **Process Engineer, BATS** 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
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EDUCATION

Jan 2019 — Jun 2020 **Professional Engineering (PE) Exam, National Council of Examiners for Engineering and Surveying (NCEES)** Jacksonville

Jun 2020 — Jun 2020 **Process Engineering for Control Practitioners Certificate, Dalhousie University** Storrs

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

Jun 2016 — Jun 2018

Master's in Bio-Chemical Engineering, New York University

Manhattan

Jan 2011 — Oct 2015

Bachelor's Degree in Chemical Engineering, University of Texas

Dallas

SKILLS	Programmable Logic Controllers	Expert	Engineer's Aide Sinet	Expert
	Process Automation	Expert	Mistake Proofing	Experienced
	Process Capability	Expert	Batch Scale	Experienced
	Commercialization Activities	Expert	Production Scale-up	Experienced
	Process Innovation	Expert	Project Phases	Experienced
	Production Start-up	Expert	Screening	Experienced
	Bench Scale	Expert	APQP	Experienced
	Gap Analysis	Expert	APQP,	Experienced
	Statistical Process Control (SPC)	Expert	Instrumentation	Experienced
	RIE/Kaizen	Expert	Geometric Dimensioning	Experienced
	Cause-and-Effect Diagrams	Expert	PPAP	Experienced
	Project management	Expert	Quality Systems	Skillful
	Design of Experiments (DOE)	Expert	Feasibility Studies	Skillful
	Value Stream Mapping	Expert	Process Solutions	Skillful
	Visual Factory	Expert	Continuous Scale	Skillful
	Pull Systems	Expert	Pilot Plant	Skillful
	Process Validation	Expert	Phase Dispersion Modeling	Skillful
	Sampling Methods	Expert	Poka Yoke	Skillful
Exchanger Design	Expert			

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	Native speaker	German	Very good command
	French	Highly proficient		

HOBBIES

Art, Fusion Cooking, Literature