

Caleb Korson

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180 Waterview Drive, APT 409
Oak Ridge, TN 37830

Summary:

Chemical Engineer with strong problem solving skills, leadership experience, a passion for process improvement, and more than five years of manufacturing experience. Looking for opportunities to grow as an engineer.

Job History:

Process Engineer

June 2021 – Present

Consolidated Nuclear Securities, Y-12 National Security Complex

Oak Ridge, TN

- Holds a Department of Energy Q Clearance.
- Created a custom work scheduling tool for the department with Visual Basic.
- Completed Interim Qualification on six systems.
- Worked on creating Draft A System Alignment Checklists.
- Began writing Draft A System Operating Procedures.

Process Engineering Manager

Jan. 2020 – May 2021

General Motors, Spring Hill Assembly

Spring Hill, TN

- Leader of a team of nine paint process engineers. This includes mentoring, training, and delivering feedback.
- Coordinated cross-functional efforts to eliminate low e-coat film build quality issue with no capital investment.
- PFMEA and process control plan owner for the paint department.
- Drive safety improvements through Safety Observation Tours and SFMEA reviews.
- Member of Launch team for new Spring Hill Paint Shop.
- Developed plan to safely and effectively idle and restart Spring Hill Paint Shop during COVID-19 shutdown and subsequent restart of production six weeks later.
- Coordinated labor and materials and create job scope for project and down work.
- Covered process engineer vacations.

Paint Process Engineer

Feb. 2019 – Jan. 2020

General Motors, Spring Hill Assembly

Spring Hill, TN

- Implemented sealer material change that resulted in a cost savings of \$6/unit (\$400,000/year).
- Led water savings initiatives to reduce DI water usage by 30% (\$140,000/year).
- Managed four hourly operations technicians and worked directly with maintenance tradesman.
- Drove automation improvements in underbody sealer cell to decrease downtime from 29 mins/shift to 3 mins/shift.
- Certified as Confined Space Entry Supervisor and regularly supervised entry in process tanks for cleaning activities.

Paint Process Engineer

June 2017 – Feb. 2019

General Motors, Detroit-Hamtramck Assembly

Detroit, MI

- Supported water usage reduction initiatives that resulted in a savings of \$150,000/year.
- Oversaw daily operations of sealer automation area and resolved sealer quality issues to ensure a high quality product.
- Graduated from Missouri S&T/GM Paint Development Program.
- Worked with maintenance personnel to fix robotic and conveyance issues.

Production Engineering Intern

May 2016 – Aug. 2016

Dow Chemical Company

Midland, MI

- Determined root cause of frequent pump seal failures and low flowrates on chemical pumping system.
- Worked with operations to redline 600+ plant P&ID's to ensure accurate plant documentation.
- Improved FIFO process with formulations plant to prevent raw materials from going out of date.

Technical Process Co-op

Jan. 2015 – Aug 2015

SCA Tissue North America (now Essity)

Menasha, WI

- Created predictive models of chemical usage to streamline chemical ordering. This was done by integrating Honeywell process monitoring software with Excel.
- Performed mass balances on screening and washing processes to support a department wide yield improvement study.
- Assisted in updating chemical unloading Job Safety Procedures to improve overall process safety.
- Performed weekly quality control checks, by taking process samples and running tests in lab.

Education:

- Michigan Technological University
 ◦ Major: Chemical Engineering
 ◦ Graduated: May 2017
GPA: 3.45/4.00
Houghton, MI
- Wayne State University
 ◦ Major: Chemical Engineering
 ◦ Transferred: May 2014
GPA: 3.30/4.00
Detroit, MI
- Missouri S&T (online)
 ◦ Certificate: Paint Development Program
 ◦ Completed: May 2018

Other Skills:

- Proficient in Visual Basic programming.
- Proficient in Microsoft Office.
- Proficient with FANUC robotics programming.
- Familiar with Rockwell PLC software.
- Thorough understanding of automotive painting processes.
- Skilled in project planning and management.