

Steven A. Walsh

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Summary:

Two years of experience in process engineering focused on continuous improvement and long-term efficiency/product quality enhancement. Additional skills include:

- Leadership
- Strategic Planning
- Problem Solving
- Manufacturing Cost Reduction

Certifications:

Apollo RCA Methodology

November 2018

Six Sigma Greenbelt

July 2020

Experience:

ADVANSIX, INC., Hopewell VA

August 2018 – September 2020

Publicly held integrated manufacturer of Nylon 6, caprolactam, ammonium sulfate fertilizer, and chemical intermediates

Process Engineer – Oximation, Ammonium Sulfate, and Bulk Sulfur Storage

- Completed Six Sigma Green belt project to improve pH control in the Acetaldehyde Oxime process, improving product quality and improving ammonia yields. Resulting in \$100,000 annual savings for the company.
- Spearheaded project to increase ammonium sulfate production through the implementation of a new agitator. New agitator increased ammonium sulfate production by 10%.
- Worked to increase safety in bulk sulfur storage through snuffing steam improvements, steam tracing improvements, and the reimplementation of vapor space temperature monitoring. This ensured continued compliance with NFPA codes.
- Conducted product quality study of ammonium sulfate by working with customers to analyze and rate railcar caking.
- Was responsible for calculating and recording daily production numbers and provide quarterly OEE reports to upper management.
- Spearheaded two efforts to recommission both an old oximation reactor as well as a distillation column. Worked to estimate residence time of material in reactor to gauge viability of its use for further production.
- Assisted with the implementation of sulfuric acid railcar unloading, including the writing/implementation of a new SOP dedicated for the process.
- Organized and facilitated over 50 contractor jobs during the Oximation Plant 2019 and 2020 turnarounds.
- Managed the implementation of all “Management of Change” improvement jobs conducted in the Oximation Plant in the year 2020.
- Represented the company at The Sulfur Institute summer 2019 conference. Sharing examples and best practices for the handling and transportation of molten sulfur and sulfuric acid.

APPEALING PRODUCTS, Raleigh, NC**March 2017 – July 2018***Privately held developer of detection kits for poisons/explosives*

Researcher

- Improved explosive detector sensitivity by 100%, to 200 ng by designing a new collection pad.
- Developed a new material for a chlorate detection kit, with the ability to detect chlorates to 50 ng.
- Created calibration curve for four QuantTab products using color formation data.

ENNIS-FLINT, INC., Greensboro NC**May 2016 – July 2016***Private equity owned manufacturer of pavement marking and traffic safety solutions*

R&D Lab Intern

- Developed new latex emulsion polymers for use in experimental traffic paints.
- Assayed experimental polymers and finished coatings for dry time, shelf stability, and durability according to established ASTM methods.

VISHAY PRECISION GROUP**May 2015 – August 2015***Manufacturer of resistive foil technology, sensors, and sensor-based systems*

Summer Intern

- Researched new processes for cleaning strain gauges, leading to an automated process that reduced the cost involved in hand scrubbing with hazardous chemicals.
- Analyzed cleaning method effectiveness using contact angle testing through a goniometer.

SEALY ARGENTINA**May 2014 – July 2014***Subsidiary of TempurSealy International, a publicly held leader in bedding products*

Summer Intern

- Analyzed the Argentina coil plant production output vs. similar plants in China.
- Studied and analyzed the polyurethane foam production process.

Education:

North Carolina State University: BS Chemical Engineering, 3.51 GPA, May 2017