

Nathan Lewis

Phone: (440) 477-3423

Email: natelewis1318@gmail.com

LinkedIn: /in/nathan-a-lewis

Objective:

To utilize my technical training, manufacturing experience, and mechanical problem-solving skills to develop and implement cost-saving manufacturing processes, procedures and safety policies to directly increase profitability.

Work Experience:

Welser Profile (Formerly Superior Roll Forming) - Valley City, OH

October 2020 – Present

Process Engineer II, Roll Forming and Finalization

- Acted as process owner of several manufacturing processes including roll forming, stamping, laser cutting, tube bending, robotic material handling, and resistance welding
- Led the development of new products, from the acquisition of new equipment, to the design and trial phase of new tooling, through the training of new processes
 - Designed and implemented an inline parts cleaning system that reduced labor cost by 50%
 - Managed the acquisition of a CNC tube bender to replace an unstable process, eliminating rework, and reducing the need for 2 shifts
- Collaborated with a team of U.S. and European colleagues to introduce new products on existing equipment, while simultaneously maintaining global production standards
- As technical lead, facilitated weekly 8D workshops to identify and carry out root cause corrective actions in response to internal and external NCMRs
 - Implemented and validated corrective actions to over 20 NCMRs in 2024
- Worked with operators, team leads, and maintenance personnel as primary contact to troubleshoot equipment and tooling failures
- Applied flexible, strategic decision making to resolve time sensitive production issues
 - Engineered an inline cutting tool within 3 days, allowing product to be produced on an alternate mill, effectively preventing a customer shutdown

Bescast Inc. – Willoughby, OH

June 2018 – September 2020

Manufacturing Engineer

- Engineered solutions to continually improve safety, production efficiency, and quality:
 - Key design projects include injection blocks for wax presses, soluble wax leach tanks, optical pyrometer system for melt stations, and spill plates to safeguard vacuum casting process
- Coordinated, executed, and analyzed weekly process and safety audits throughout the manufacturing facility
- Developed and certified new wax injection equipment through assessing trials, establishing safety procedures, and generating processes to create consistent product quality and dimensions

Sifco Forge – Cleveland, OH

July 2017 – December 2017

Process Engineering Co-op

- Analyzed historical steam and gas usage to generate an operation plan to utilize plant boilers more efficiently
- Provided engineering support to die shop and maintenance departments

Superior Roll Forming – Valley City, OH

January 2016 – August 2016

Mechanical Engineering Co-op

- Consulted with operations team to develop solutions for better production efficiency, consistency, and safety
- Reengineered secondary assembly processes including weld fixtures, secondary dies, and part benders

Education:

Case Western Reserve University, Cleveland, OH

Graduated May 2018

Bachelor's of Science in Mechanical Engineering

Proficient in: AutoCad, Inventor, Solidworks, SAP, MATLAB, Excel, Minitab

Leadership:

Phi Delta Theta, Ohio Eta

January 2014 – May 2018

- Served on Chapter Executive Board as the Philanthropy Chair

Case Western Reserve University Varsity Football and Wrestling

August 2013-April 2018

- Earned NWCA Scholar All-American and 6 total varsity letters as dual sport athlete