

Jason Ayers • 1775 Lakeview Rd East Cleveland, OH 44114
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Mechanical Engineer seeking a position where prior experience in manufacturing, automation, failure analysis and project management could be leveraged.

EXPERIENCE

CPP Eastlake Facility • *Process Control Engineer* • Eastlake, OH • June 2020 - Ongoing

- Designed Safety, Quality, Process Control and Throughput improvement projects
- Transitioned from the Process Control Eng. from the Metal end of the plant to the Wax end of the plant
- Trained in Kawasaki Controller Operations & Programming, AS Language & K-Roset
- Created Training, documentation for Autoclave Vessels, Manipulators & new Kawasaki Robotic Cell.

PCC Airfoils – SMP Location • *Manufacturing Engineer* • Wickliffe, OH • June 2018 – April 2020

PCC - SMP is a leading foundry for producing single crystal blades and vanes in use in the hot section of turbine engines

- Responsible for the quality of parts through the Rough Clean (post-foundry) operations at Wickliffe plant
 - Produced and managed scrap budget associated with Handling Scrap
 - Designed Safety, Quality, Process Control and Throughput improvement projects
 - Qualified Vulcan/ABB Auto-Cutoff unit and transitioned from a trial phase to cutting 64% of molds
 - Tried pneumatic knockout process and transitioned majority of the WIP to follow it
 - Brought overall quarterly improvement in scrap of \$ 84,000/QTR
 - Updated procedures, training checklists and part routings through the rough clean area
- Transitioned from managing individual projects to managing a team of engineers within the rough clean area

HollyFrontier • *Project Engineer Intern* • El Dorado, KS • Summer 2015

The El Dorado refinery is a crude oil refinery with a capacity of 135,000 barrels/day

- Followed up with an ongoing construction project for procedural compliance
- Wrote a technical standard for the use of HDPE pipes at the refinery
- Designed improvement projects for the refinery and reviewed implementation
 - Replaced caustic open loop sampling stations with closed loop systems to ensure safety
 - Replacing large scale spring hangers on a 48" diameter pipe on a critical part of the plant

Henderson Engineers, Inc. • *CAD Technician* • Lenexa, KS • Summer 2014

- Modelled HVAC and plumbing layouts for future commercial buildings
- Gained proficiency with Autocad and Revit softwares

EDUCATION

University of Missouri-Kansas City • Master of Science Mechanical Engineering • 3.5 GPA • 2016 - December 2017

- Focused study in failure analysis, gained proficiency in fluid dynamics software

University of Missouri-Kansas City • Bachelor of Science Mechanical Engineering • 2013 - May 2016

- Competed in the Venture Creation Challenge
- Worked with a team to complete an engineering request put forward by Orbital ATK
 - Created procedure and designed equipment for making inert mixtures that would simulate energetics

Georgia Institute of Technology • Biomedical Engineering • Atlanta, GA • 2011 - 2013

- Improved on the design of an endoscopic surgical stapler

MERITS

- Passed Fundamentals of Engineering (Mechanical) exam
- Proficient with Microsoft Office, Matlab, Solidworks, Fluent and Autocad softwares

INTERESTS AND ACTIVITIES

- Eagle Scout and Active member of the Boy Scouts of America 2004 – 2011