

Andrew Crawford

Process Mechanical Engineer

Denver, CO 80218

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8437890776

Process mechanical manufacturing engineer with years of diverse experiences including process safety, system optimization, project management, and environmental control.

Willing to relocate to: Denver, CO

Authorized to work in the US for any employer

Work Experience

Process Engineer

Urban Electric - Charleston, SC

February 2014 to May 2017

Lead process engineer for a small private manufacturing company producing custom light fixtures out of copper and brass. Responsible for site safety, environmental control, capital project implementation, and the technical guardian for the surface finishing operation. Led several large capital projects that doubled production output by installing two brand new finishing cells as well as numerous process and safety improvement projects. Identified and established environmental control processes and proper EPA and DHEC permitting requirements dealing with hazardous waste, air emissions, and water effluent. Equipment in the finishing area included nickel plating, powder coating, acid oxidation and lacquer coatings.

Manufacturing Technology Engineer - Powerhouse

DuPont Kevlar - Moncks Corner, SC

April 2008 to February 2014

- The lead on-site powerhouse engineer responsible for the safe and reliable design, construction, commissioning, operator training, ongoing operations and the technical support of the \$125M powerhouse portion of a \$500M green field project.
- Indirectly manages 25 technicians in a high performance work system (HPWS)
- Major equipment includes large horsepower process chillers, air compressors, HVAC, boilers, water conditioning, ultrafiltration, pH control, filter press and auxiliary equipment.
- In 2011, the responsibilities expanded to be the technical and operations lead for a state of the art effluent treatment facility that uses a custom ultrafiltration and neutralization equipment to meet SC DHEC water outfall limits.
- In 2012 and 2013, Implemented numerous continuous improvement projects resulting in a year after year variable and energy cost savings of \$220K and \$160K.
- Lead the multi-site process safety hazard analysis and facility siting program.

DuPont Field Engineering Leadership Program

DuPont - Various Locations

2001 to 2008

DuPont Engineering Field program is a engineering leadership training program with 2-3 year assignments at different locations focusing on different aspects of the business and engineering discipline.

1. DuET Energy Engineer, Nashville, TN, (2005-2008)

Internal DuPont energy consultant (DuET) for various DuPont plant sites nationwide focusing on the safe operation, reliability, process improvement and energy efficiency opportunities. Equipment included large air compressors, chillers, vaporizers and boilers. Major projects involved heavy metal removal from coal boilers and refrigerant phaseout.

2. Day Operations Manager, Tyvek. Richmond, VA (2003-2005)

Directed 5 first line managers to exceed the business goals safely and effectively by leading quality, yield, and uptime metrics. Coordinated and executed the daily production operations goals by integrating the objectives from the technical, maintenance, production planning, quality, safety and leadership teams. Technical resource for the spinning operation with 24/7 first call duty.

3. Powerhouse Mechanical Engineer, Nylon. Camden, SC, (2001-2003)

Reliability engineer troubleshooting process opportunities and continuous improvement projects on coal boilers, natural gas vaporizers, air compressors, steam turbines and refrigeration chillers. Managed the small capital project budget for the powerhouse

Education

Bachelor's in Mechanical Engineering

Mississippi State University - Starkville, MS

1996 to 2001

Skills

Safety First, Process Safety Management (PSM), Process Hazard Analysis, High hazard process operation, Hazardous waste operation/disposal (10+ years), Environmental control, capture, monitoring and permitting of air and water. (5 years), Technical and operational experience with coal boilers, thermal vaporizers, refrigeration chillers, air compressors, HVAC, waste water treatment and a wide variety of complex manufacturing production machines. (10+ years), Process optimization, energy utilization, fixed and variable cost reduction, six sigma (green belt), and lean manufacturing (10+ years), Metal surface finishing operations including nickel electroplating, powder coating, and acid oxidation (3 years)

Certifications/Licenses

EPA Refrigerant Certification

Assessments

Indeed Assessments are tests that job seekers can use to demonstrate their knowledge and abilities.

Safety Orientation Skills — Highly Proficient

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/gdmt5b5ewivk3a5b

Vehicle Maintenance Skills — Highly Proficient

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/iwpsjcxgtssmdgt9

Data Analysis — Highly Proficient

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/693a0tksc5huarrx

Management & Leadership Skills: Planning & Execution — Highly Proficient

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/h3prc7vodeds2szc

Problem Solving — Highly Proficient

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/r-e9cu3-6pkfw1tx

Project Management Skills: Time Management — Highly Proficient

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/nnufv2xivr73cos

Mechanical Skills: Aptitude — Expert

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/g-largyv6wouks1

Mechanical Skills: Monitoring — Proficient

Dec 2018

View my full results at: https://share.indeedassessments.com/share_assignment/kkdkvnhg-ipyt8mf

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