Thomas Neff
Project Engineer - Babcock & Wilcox

Hatfield, PA - Email me on Indeed: indeed.com/r/Thomas-Neff/7c216dc538405bea

WORK EXPERIENCE

Project Engineer
Babcock & Wilcox   -   Hatfield, PA - July 2015 to Present

Design and program Data Acquisition and Handling Systems (DAHS) for air emissions monitoring in the power generation and petrochemical industries
• Program PLC's and HMI systems for projects, including GE and Allen-Bradley platforms
• Build customer relations and engage customers to define initial product, execution strategy, and regulatory constraints
• Manage schedule, budget, and forecasting on assigned projects
• Acted as a lead engineer and support engineer in executing 6 projects, representing over $700K in sales within first year

Research Engineer Co-op
ExxonMobil Research and Engineering   -   Paulsboro, NJ - September 2013 to March 2014

Sept 2012 - Mar 2013

ExxonMobil Research and Engineering - September 2013 to March 2014

Troubleshot, configured and deployed data-loggers used for recording vehicle on-board diagnostics (OBD)
• Coded an automated data analysis software in Matlab to handle over 16 million data points received from loggers
• Applied Matlab software to better understand low-speed pre-ignition (LSPI) phenomenon; an unprecedented issue
causing catastrophic engine failure in live field tests

Solubility / Oxidation Research - September 2012 to March 2013

Using proprietary laboratory techniques, simulated 6 months of storage stability with lubricant components
• Developed new methodologies for proprietary solubility test, improving test reliability by 20 percent
• Performed statistical analysis in Excel with oxidation test data and developed an empirical model to predict the effects of temperature, pressure, catalyst, and concentration of antioxidant on oxidation life

cGMP Manufacturing/Process Engineer Co-op
Johnson & Johnson   -   Lititz, PA - August 2011 to March 2012

Project Leader: Revamped product rework area, reducing rework time by 50 percent
• Redesigned equipment layout and supervised 3 contracting companies to fabricate and install rework components
• Executed site acceptance test and trained approx. 70 operators, 3 team leads, and 5 engineers on new equipment
Project Leader: Designed and Installed Custom Workstations for Enhanced Safety and cGMP Compliance
• Performed cost analysis, safety analysis, and 5S activities to quantify a need for new workstations
• Obtained capital request of $50,000 from plant manager to install a total of 12 workstations on 4 production lines

• Installed workstations on pilot line, which then became a plant-wide standard to be copied in other business units

Lean Manufacturing and Continuous Improvement:

• Worked on cross-functional teams to roll-out 5S, TPM, Lockout-Tagout, and Center-lining

EDUCATION

Master of Science in Chemical Engineering
Drexel University - Philadelphia, PA
September 2010 to June 2015

Engineering Study
Ruhr University - Bochum
July 2013 to September 2013

ADDITIONAL INFORMATION

Skills

- Microsoft Office: Word, Excel, PowerPoint, Project, etc. - Root Cause Analysis, Failure Analysis

- Programming: Matlab, C++, Rockwell RSLogix 5000 - Project Management

- Drafting/Modeling: Basic AutoCAD & Pro E, Aspen Modeling - Cost Analysis

- Data Analytics & Statistical Modeling - Database Management, SQL

Past Distinctions

Drexel Dean's Scholarship, The Lenfest Foundation Academic and Service Scholarship, Vice President of Lambda Chi Alpha Fraternity, National Scholar Athlete Award, People to People Student Ambassador