

J O S H U A T A Y L O R

PROFESSIONAL

SENIOR MECHANICAL ENGINEER

EASTMAN CHEMICAL COMPANY 2014 - PRESENT

- Led and supported projects related to steam, cooling water, refrigeration, air, nitrogen, machine design, heat transfer fluids, and HVAC.
- Designed utility systems for new capital projects (500K-40M USD) and debottlenecking efforts.
- Modeled plant wide utility distribution piping networks and chemical process networks and provided insight to debottlenecking and troubleshooting.
- Served as staff engineer for five natural gas boilers and auxiliary equipment and seven coal fired boilers with waste streams.
- Served as environmental and process safety coordinator.
- Interfaced between operations, maintenance, capital project managers, and plant engineering.
- Served as staff/project engineer over capital and expense projects related to powerhouse support – boiler tube replacements, condenser retube, VFD retrofits, capital process improvements, energy conservation projects, control retrofits, combustion logic/tuning.
- Responsible for: identifying process improvements, troubleshooting and scoping projects, estimating projects, submitting for funding, project execution, as well as piping, boiler, and burner inspections.
- Served as capital coordinator for Power Department at Eastman TNO
- Mentored multiple co-ops, interns, and new hires.

LAB TECHNICIAN

EASTMAN CHEMICAL COMPANY 2011-2012

- Evaluated coating systems containing Eastman raw materials using appropriate analytical and physical ASTM D testing methods.
- Managed collection, entry, and appropriate storage of experimental data.
- Documented technical results in the form of technical reports and project updates.



EDUCATION & LICENSES

PROFESSIONAL ENGINEER

Tennessee

2018

M.S. MECHANICAL ENGINEERING

North Carolina State University

2016-2018

B.S. MECHANICAL ENGINEERING

University of Tennessee - Knoxville

2012-2014

B.S. BIOLOGY

East Tennessee State University

2006-2011

KEY SKILLS

Project Management
Cross discipline engagement
Engineering Studies
Construction Management
Fluid modeling
SolidWorks
EPA compliance / emissions
MicroStation
PI / PI Vision
B31.3 and 31.1
NFPA 85
SAP
PHA