

Patrick Echols

Project Designer
pbe@mdseng.com

Employment History

Mechanical Design Services, Inc. (8/19/2019 - Present)

- Perform heat load calculations.
- Review Architectural, Structural, Electrical and Civil Engineering contract documents in relation to project construction implementation, completeness, accuracy and intent of program scope
- Design and layout mechanical HVAC, plumbing, and fire protection systems.
- Utilize AutoCad and REVIT program suites to produce construction drawings.
- Provide Energy Conservation studies for clients along with cost effective mechanical system proposals to increase facility energy conservation efficiency in relation to system first cost verse pay back.
- Review project submittals and ensure submitted items are compliant to the basis of design.
- Visit project site and provide field observation reports listing progress and deficiencies.

Elite Equipment (06/22/2012-08/16/2019) – Technician

- Performed mechanical diagnostics.
- Serviced hydraulic pumps, valves, electrical coils and relays.
- Performed maintenance on equipment at Redstone Arsenal and multiple plant locations varying from chemical, nuclear and steel.
- TVTC certified.
- Clearance for multiple sensitive facilities.

Education

College/University

Shoals Community College (01/2011-12/2011)

Muscle Shoals, AL

Mechanical Pre-Engineering