

Joe Slaughter Joe@layer1holdings.com 701-610-3058

I train Control Panels for manufacturers.

Sales Engineer in Industrial Automation, Distributor

Control Panel Design, Retrofit, Industrial Automation and Risk Review

Bachelor of Science in Chemical Engineering, University of North Dakota

Current Employment

| | | |
|--|--|------------------------|
| Entherm | Senior Controls/Sales Engineer | December 2019, Current |
| Watlow PLC Distributor | Electrical Heat for Manufacturing (Control Panels) | |
| Control Panel Designer, Autocad Electrical Single Line diagrams PLC Programming, Ladder Logic, Human Machine Interfaces (HMI), Developing State Machines, Functional Tests | | |

| | | |
|--|---|-----------------------|
| Layer 1 Holdings LLC | DefineTheBox.com Database for Automation | Founded 2017, Current |
| Joe@Layer1Holdings.com | documentation of Living Documents SOPs and FMEA | |
| Programming Programmable Logic Controllers: Watlow, IMO Automation, Eurotherm, Set User Requirements, Partner with Distributors with software Licenses to program Emerson DeltaV, Allen Bradley/Rockwell | | |
| Examples: DefineTheBox.com Layer1Holdings.com/PLC DefineTheBox.com/Risk Layer1Holdings.com/PIDs Layer1Holdings.com/CFO | | |

Former Employment

| | |
|---|---------|
| Cantel now Steris | 2 years |
| Medical Device IQ/OQ/PQ Functional Test Documentation of 225 Hollow Fiber Spin, Piping/Process and Instrumentation Diagrams | |

| | | |
|--|---------------------------|---------|
| Cargill | Project Development Group | 6 years |
| Functional Test and Process Narrative Architect using DeltaV (Lime Water Treatment, RO, Demineralizers, Boilers) | | |
| User Required Specifications: Process P&IDs, Instrument Use (Biodiesel, Edible Oil, Corn Milling, Utilities) | | |
| Failure Mode Effect Analysis; Device, User, Process and Business (Process Development Group) | | |
| Permissive, Interlock, Alarm Rationalization, Safety Devices, Controls Design and Functional Test | | |
| Standard Operating Procedure Development | | |
| 6 Million Month End Accounting and Allocation of Fuel and Electrical of Plant Departments (P&L Development) | | |
| 0.5 M Coal Use Reduction and Savings | | |
| HACCP Hazard Analysis Critical Control Point for Food and Beverage Manufacturing Safety | | |
| Capital Projects and Change Order Management | | |

Unit Operation Experience

High pressure steam boilers, Burner Management Systems (BMS), Electric Heating Applications, steam turbines and electric generation, Cooling Towers, Lime Cone Water Treatment, reverse osmosis, Water Deionizers, gravity separators, plug flow reactors, continuous stirred tank reactors, resin bed separation, distillation columns, screen separators, cyclones, steam tube dryers, heat exchangers, condensers, Plastic Injection Molds, Extruders, Semiconductors