Resume

Robert Underwood
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CAD Portfolio: rduexp.com

Summary:
Experienced CAD designer and technician with over 10 years of experience in 3D solid modeling, mechanical technical illustrations, and hands-on experience with CNC machines, pneumatics, hydraulics, valves, actuators, drive motors, and pumps. Strong understanding of electrical power circuits, logic controllers, PLC ladder logic, and HMI. Proven track record of success in CNC manufacturing and mechanical CAD design.

Work Experience:
2006-present: MCO Construction, ID Pipe Coating Equipment, Odessa, Texas
• Design parts and prototypes using CAD software Autodesk Mechanical and Inventor
• Program CNC Lathe, Mill, Plasma/Oxy-Fuel burn table
• Create rendered 3D Mechanical illustrations for Marketing, Engineering

2005-2006: Project (Design Build Prototype)
• Design and implement improvements on a winch operated fluid lift assembly
• Automated controls using a PLC with touch screen and variable frequency ac motor drive
• Design and build a dynamic seal to allow fluid transfer from down hole collection canister

1991-2005: The Bosworth Company, Midland, Texas
• 13 years (HVAC) Commercial service and installs of heating and cooling pipe systems
• Medical gas piping installs at Medical Center Hospital and ORH, Odessa, Texas
• Autocad for CNC burn table, sheet metal profiles, Piping systems

Education:
1999-2000: Midland College, Midland, Texas
• Computer graphics I and II CAD software, 2 semesters
• Controls and power circuits, HVAC design

Skills:
• CAD software: Autodesk Mechanical and Inventor
• CNC Lathe, Mill, Plasma/Oxy-Fuel burn table programming
• 3D Solid modeling and mechanical technical illustrations
• Electrical power circuits, logic controllers, PLC ladder logic, and HMI
• HVAC piping system installations
• Medical gas piping installations

Certifications:
TEXAS STATE BOARD OF PLUMBING EXAMINERS
2000 Medical Gas Piping Installation Endorsement
1996 Journeyman Plumber license