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Education

- B.S. Arizona State University, Industrial Technology & Supervision, 1983
- Federal Aviation Administration, Repairman Certificate-Accessory, Commercial Pilot, Single Engine Land, Multi Engine Land, Glider, Instrument Rating

Engineering Experience

- 2005- Senior Hydraulics Consultant, Augspurgen Komm Engineering, Phoenix, Arizona
- 1993- Jansen's Aircraft Systems Controls, Inc., Vice President, Operations Manager, Tempe, Arizona
- JASC is an Engineering/Manufacturing company specializing in hydraulic and pneumatic controls and accessories. JASC components are used worldwide in space, aircraft and stationary power turbine applications. JASC is a leader in active combustion control and was recently recognized for activities associated with the Hypersonic Flight, X-43, X-51 programs. JASC engineered and developed fuel and ignitor valves utilized on the flight vehicle. Was instrumental in implementation and certification of JASC to ISO / AS / FAA / EASA Quality Management Systems.
- 1989-93 Pegasus Motion Control, Inc., Tempe, Arizona
- Principle, responsible for engineering and service of industrial hydraulic and pneumatic systems and components. Pegasus provided sales and distribution of components in the Arizona and New Mexico areas. Provided in house technical support and field service to customers. Diagnosed and repaired various hydraulic and pneumatic systems in use in a manufacturing environment. Re-designed systems to adapt to new manufacturing requirements.
- 50 Ton Encapsulation Presses - Intel
End of Line Sheet Roll Drives - Stone Container
University of Arizona SMT Telescope Enclosure Actuation , Safford, Arizona
Automated Refuse Collection System, Heil of Arizona

Engineering Experience (Continued)

1978-89 Phoenix Controls, Inc., Phoenix, Arizona

Various engineering and onsite service activities related to the design, manufacture and commissioning of specialty electro-hydraulic components and systems.

Geothermal Steam Vent Control System, Geysers, California
Turbine Pump Seal Pressurization System, Borg/Warner
Main Transmission Test Stand AH-64, Apache
Swashplate Actuator V-22 FISCAR Lab, Boeing Vertol
Advanced Hydraulic Distribution System, Boeing, Mesa Arizona
BI-B Weapons Bay Hydraulic Damper Test Rig, U.S. Air Force

The above projects required development activities and working knowledge of advanced hydraulic and servo control systems.

Hydraulic pressures of 5000psi
Flow rates in excess of 750 gpm
Diesel prime mover, 1060 hp hydrostatic drives
Steam flows of 1.2m lbs/hr

1975-78 Tyler Camera Systems, Inc., Van Nuys, California

Service Technician for specialty cameras and mounts utilized in the motion picture industry. Accompanied hydraulic actuated, gyroscopic stabilized camera platforms to remote site location. Operated and maintained hydraulic servo and electronic controls.

Patents

U.S. Patent 6,050,081 - Air Purging Fuel Valve for Turbine Engines