

DESIGN/PROGRAM ENGINEER 20+YRS EXPERIENCE

SUMMARY:

Experienced System Design/Program Engineer with extensive knowledge in instrumentation, data acquisition, software development, project management, and ATE. Over twenty-five years of System Design Engineer/Programming experience involving instrumentation and computer systems, including aerospace, audio, automotive, medical, photonics, and semiconductor industries. Skilled in design and implementation of instrumentation, data acquisition, data management, GPIB, motion control, dynamic, strength, fatigue, environmental, endurance, flight, and wind tunnel tests, flow bench, real-time and production systems. Expert with LabVIEW design, development and support

Solid project management experience

FAA License – Airframe and Power Plant

Clearance: Top Secret (Inactive), Secret (Inactive)

TECHNICAL SKILLS:

Software LabVIEW 8.2, LabVIEW RT, TestStand 3.5, Assembly, C++, Visual Basic

Database SQL, MySQL, MS Access, DOORS

Hardware GPIB, SCXI, PLC, VXI, VME, DAQ, USB, Firewire, PXI

Protocols ARINC429, 1553, SECS

Operating Systems MS Windows, Unix, Linux

Certification Standards DO-178B, DO-254

SOFTWARE EXPERIENCE:

Instrumentation Engineer / Software Development

- Developed of aerospace, audio, automotive, medical, and photonic test and measurement applications.
- Created plasma etcher control hardware and software using National Instruments software development tools and DAQ products.
- Responsible for the development of structural, flight, and ordnance test and measurement applications using Hewlett Packard software development tools and data acquisition products.
- Developed of Automated Test Equipment (ATE) used in production of the USA Apache helicopter and USAF cruise missiles.
- Provided project management expertise for FAA certification of structural test of NOTAR tail boom and rotor system.
- Designed and built instrumentation systems used in flight test of B-1 bomber and Space Shuttle, including power supplies, multiplexers, interface panels, wiring harnesses and connectors.
- Co-developer of FabTALK, a LabVIEW toolkit for the development of SECS communications.
- Team Member responsible for designing production system that integrated a production database, production test systems, and data warehouse. Tools utilized included LabVIEW, Oracle 6I, and TestStand.
- Developed Real-Time Distributed Data Acquisition Systems.

PROFESSIONAL EXPERIENCE:

Systems Engineer/Software Developer 2003-2009

Moog Aircraft Group, Salt Lake City, UT

Worked as a member of team responsible for Level A flight software and hardware validation & verification per DO-178B and DO-254. Responsible for test system architecture, design, construction, software development, integration, documentation, test procedures, test cases and peer reviews. Designed, built, and programmed ATEs for production test and software validation using LabVIEW and TestStand.

Team projects Hawker 4000 (spoiler, flaps, and pitch), Bombardier Challenger 300 (spoiler and pitch trim), Gulfstream G45 (pitch and flaps), Airbus A400M (Electronic Backup Assembly), Boeing 787 (EMCU), Boeing X-45 (UCAV WBDAS), and Airbus A350.

Systems Engineer/Software Developer 2002

ITT Industries' Avionics Division, Clifton, NJ

A member of team responsible for verification and validation of the ALQ-214 IDECM RFCM.

Systems Engineer/Software Developer 2000-2001

Summit Technology Services, Inc./Corning Inc., Corning, NY

Developed ATE for development and production testing of optical amplifiers. Design of data warehouse and software tools used to store production test results.

Systems Integrator/President 1994-2000

ATS Inc., Mesa, AZ

National Instruments Alliance Member and President/CEO of systems integration corporation. Developed test and production systems for numerous companies, including BF Goodrich Aerospace, Motorola, Intel, Microchip, Speedfam, Kimberley Clark, University of Arizona, NASA, and Jansen's Aircraft Systems Controls.

Instrumentation/Software Engineer 1984-1994

McDonnell Douglas Helicopter Sys., Mesa AZ

Responsible for the development of structural, flight, and ordnance test and measurement applications using Hewlett Packard software development tools and data acquisition products.

Senior Data Technician 1982-1984

Rockwell International, El Segundo, CA

Designed and built test data systems used on USAF Space Shuttle and B1B.

EDUCATION / TRAINING:

M.S. Computer Information Systems Arizona State University, Tempe, AZ

- Completed 15 Credits toward degree

B.A. Computer Information Systems Western International University, Phoenix, AZ

Certificate of Completion Northrop Institute of Technology, Inglewood, CA

- Airframe and Powerplant Maintenance

A.S. Electronics El Camino Jr. College, Torrance, CA