

DAVID C. TYLER

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OBJECTIVE

I am looking to maintain a contract position that will allow me to continue a limited participation in data acquisition and process control systems, mostly in an advisory capacity.

EXPERIENCE SUMMARY

More than 30 years of experience designing, implementing, commissioning, analyzing and supporting real-time distributed data acquisition and process control systems.

All project phases including functional specification, system design, hardware selection, software implementation, system configuration, startup, training and user support. Have designed, set up and supported many systems. Strong System Programmer, Data Acquisition and Device Interface experience.

Excellent programming skills in several languages, including C/C++, Assembly Language and Visual Basic. Creative, cost-effective applications include distributed, embedded control, communications, networking, client/server, database, device interface, graphics and downsizing.

EMPLOYMENT HISTORY

June 2010 to Current	Retired
June 2009 to June 2010	Control Systems Software Engineer, Ktech, Albuquerque, NM. Developed distributed, embedded control systems for pulsed power RF sources.
June 2008 to June 2009	Sr. Controls Software Engineer, Stirling Energy Systems, Albuquerque, NM. Developing distributed control system for a concentrating solar facility. Responsible for the Dish Group Server (DGS) for AES encrypted UDP, TCP network command and real time acquisition and processing for over 10,000 data points.
January 2007 to June 2008	Control Systems Software Engineer, Ktech, Albuquerque, NM. Developed distributed, embedded control systems for pulsed power RF sources.
October 2002 to January 2007	Engineer IV, Software, ATK Mission Research, Albuquerque, NM. Helped to establish and subsequently supervised an award-winning System Automation Group.
June 1993 to September 2002	Computer Scientist, Voss Scientific, Inc., Albuquerque, NM. Coauthored the VSI Data Acquisition, Analysis, Archival and Control (DAAAC) 4.0 rewrite.
February 1981 to May 1992	System Specialist, ARCO Alaska, Inc., Anchorage, Alaska. System Analyst on the Kuparuk Data Gathering System. Automation Software Project Leader on the Central Gas Facility. System Programmer on the Prudhoe Bay Automation System.
February 1978 to February 1981	Head Programmer, Ground-based Electro-Optical Deep Space Surveillance System, White Sands Missile Range, New Mexico. U.S. Air Force project, run by Lincoln Labs.

EDUCATION

- Bachelor of General Studies, June 1980, New Mexico Institute of Mining and Technology, Socorro, NM.
- Graduate work towards a Masters in Computer Science, New Mexico Institute of Mining and Technology.

PUBLICATIONS

- "TCP/IP Communication with Embedded Processors", Circuit Cellar, Issue #211, February 2008

AWARDS & QUALIFICATIONS

- Air Force Research Laboratory (AFRL) Directed Energy Directorate Director's Special Recognition Award (2004) to the MRC-ATK IED CRADA Team.
- Security Clearance, active DoD Secret

References available upon request.