Curriculum Vitae

(Course of Life)

Don B. Stuart

DeltaV Process Control and Automation Specialist
Specializing in Process Control Strategies including
Advanced Process Control applications.

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OBJECTIVE :

I am looking for my next new DeltaV Process Control/Automation Project. I require REMOTE ONLY contracts.

This year marks 47 years of Process Control/Automation design and implementation across many industries including 35 years implementing PRoVOX and 27 years implementing DeltaV Systems. This past year marks the completion of my 100th Process Control/Automation project involving Monsanto/Emerson DDC, PRoVOX and DeltaV.

EXPERIENCE:

Attention to DETAILS is on top of my list for executing projects.

Covering 100 Process Control projects over the past 47 years.

During these years, I have implemented Classes, Phases, SFCs, EMs, and Control Modules for many Emerson IMPACT Partners and individual customers continuous process applications and Batch systems. I have implemented Procedures, Unit Procedures, Operations, Phases, SFCs, EMs, CMs, and Recipes for pharmaceuticals. I also have worked on teams to resolve coding problems and testing validation code on new projects.

See website/resume for details on each project.

In addition, I have written many Functional Design Specifications (FDS) and Detail Design Specifications (DDS) as well as Validation documents. I also have created many simulations systems for training and code testing, written Training documents and ran many operator and engineer training programs.

EDUCATION:

Mississippi State University
BSEE MBA

B.S. in Electrical Engineering (1971): Triple major in Compute Systems, Control Systems and Communications Systems.

MBA -Masters in Business Administration (1978): Double major in Management and Accounting/Finance.

Emerson DeltaV Educational Classes
1996-2002

- 7009 Class – DeltaV Implementation I
- 7010 Class - DeltaV Implementation II
- 7011 Class - DeltaV System Integration
- 7016 Class - DeltaV Batch Configuration
- 7031 Class - DeltaV Fieldbus Implementation
- 7040 Class - DeltaV OPC (Ole for Process Control)
- 7017 Class - DeltaV Advanced Configuration
- 7018 Class - DeltaV Maintenance & Troubleshooting
- 7019 Class - Part I DeltaV Version 4 to 5 Transition
- 7033 Class - Part II DeltaV Version 4 to 5 Transition
- 5814 Class - System Networks for DeltaV and POC

SECURITY CLEARANCE:

Government Security Clearance: ***SECRET***
(Initial NASA: 1967, renewed Lockheed Missile & Space Co.: 1982 – Currently Inactive)

SKILLS:

Computer Programming

Over the years, I have mastered many programming languages: Assembler, Fortran, Basic, C++ and many more. Wrote my first program in Fortran in 1968 to calculate wind speed and direction from an analog wind speed indicator for NASA Apollo program: 1st ever program to do this function.

DCS Applications include: Emerson DDC, PRoVOX, EnVOX and DeltaV and Honeywells' TDC 2000.

Hardware Applications include: Firmware programming for embedded logics.

Software Applications

Software Applications includes: programming for PC Tape Backup, Communications, Device Drivers, hardware interfaces, GUI, Real-Time Process Control Systems, Graphics Systems, Robotics Systems, Vision Control Systems, Local Area Networks (LANS), Military Display Control

Systems, Pipeline Transformation System, Database Recording Systems, and Statistical & Analysis Modeling Systems.
Microsoft Office products including Excel and Access. I have created many documents using Power Point and Publisher.

Engineering Design

Engineering Design work beginning in 1981 for Texas Instruments included design of the digital analog tape backup system for TI's Personal Computer system. This included hardware design and chip embedded logic code.

Engineering work beginning in 1986 for IBM included Logic analysis and computer simulation of IBM's RT-RISC chip logic (IBM's RS/6000 14 chip set), chip logic ETE (Early Timing Estimate) Analysis and chip logic debug. This hardware work resulted in addition scale down version for the IBM POWER PC Chip (Same logic as RS/6000 but in single chip). This chip was used in the DeltaV controllers for 10 years as well as the MAC computers.

Emerson DeltaV Contributions

While working for Emerson in 2003-2004 in Austin (DeltaV V5), I resolved the problems with the new DeltaV Virtual Controllers downloads. Based on my previous experience on the IBM Power PC Chip design and functioning, I was able to identify the problem for DeltaV Development/Research Group in Austin and it was corrected in DeltaV V6.

Also, while working for Emersion in 2003-2004, I implemented an Access database program that generated DeltaV fhx directly from the Access Database. I like to think this was the incentive for Emerson to create BulkEdit but using Excel spreadsheets to generate fhx files instead of using Access Database. In both cases a template for the point type is utilized to generate the fhx files, import it into DeltaV database and then delete the fhx file.

Website Building

Built first website in 1994 for my business using HTML Language: DBStuart.com
Website created in HTML and continued today as HTML code.
Over the years, HTML languages include: HTML – HTML5.
Built other website for business, churches, hospitals etc...

PRoVOX Migration to DeltaV Tool

Migration includes: In 2014, I designed a PRoVOX/EnVOX Documentation and Migration tool for migration PRoVOX systems to DeltaV Systems. The tool creates the spreadsheets of PRoVOX Points (90 different points) and FST instructions for bulkedit into DeltaV.

PROFESSIONAL ORGANIZATIONS:

Institute of Electrical and Electronic Engineers (IEEE) – Life Member
International Society of Automation (ISA) previously The Instrumentation, Systems and Automation Society. – Life Member
Association of Computing Machinery (ACM) – Life Member
Computers in Mechanical Engineering (CME) – Not active currently
Society of Manufacturing Engineers (SME) – Not active currently

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