

Paul C. Hood
17200 Heather Dawn Lane, Brandy Station, VA 22714
540-727-0358
dahoodman@gmail.com

Summary of Qualifications

- 15+ Years:
 - Working with Supervisory Control and Data Acquisition (SCADA) systems
 - Incorporating many types of Intelligent Electronic Devices (IED) with SCADA systems
 - Working with and programming Programmable Logic Controllers (PLC) of various manufacturers
 - Incorporating devices with SCADA systems using various protocols such as MODBUS and DNP3
 - Working with various communications methods: radio, Ethernet, serial, fiber optic, and wireless
 - Installing, testing, and maintaining electronic monitoring and control devices such as pressure gauges, control relays, flow meters, and 4-20mA signal loops
- Strong project management skills
- Strong ability to develop and manage budgets
- Strong knowledge of MS Structured Query Language (MSSQL), MS Reporting Services, and MS Web Design using Cascading Style Sheets (CSS), Visual Basic, HTML, and some JavaScript
- Good knowledge of managing and working with MS 2008 servers, Cisco ASA Firewall, Routers, and Switches

Education

NATIONAL LOUIS UNIVERSITY

Bachelor of Science: Management Information Systems, June 2008, GPA: 4.0

NORTHERN VIRGINIA COMMUNITY COLLEGE, 2003 & 2007

Major: Management Information Systems Transfer Credits

MOUNTAIN EMPIRE COMMUNITY COLLEGE, 2003

Major: Electronic Engineering Technologies Transfer Credits

OLD DOMINION UNIVERSITY, 1998 – 1999

Major: Electronic Engineering Technologies

GERMANNA COMMUNITY COLLEGE

Associate of Applied Science: Electronic Engineering Technologies, May 1997, GPA: 3.9

Employment History

CITY OF MANASSAS, May 1996 - Present

Electronic Systems Manager, May 2000 – Present

Acting Systems Operations Supervisor, May 2010 – October 2010 & May 2011 – October 2011

Electronic Systems Technician, May 1996 – May 2000

- Responsible for supervising, writing evaluations, providing training, interviewing, and coaching five technicians
- Responsible for developing and managing a very large annual budget and developing interdepartmental billing for communication and fiber optic usage services
- Responsible for all aspects of managing, installing, and maintaining the City's SCADA system which provides secure and reliable data and control access for the Electric and Water Departments, Operations Centers, and key personnel
- Responsible for managing, maintaining, and programming the City's 800Mhz Digital Trunked Public Safety Radio System and subscriber radios which provide communications for Manassas and Manassas Park Police Departments, Utilities, and various other departments. This system is also a part of an Interoperable Radio Plan in the Metropolitan Washington Council of Governments (MWCOG) to provide emergency backup services during large events
- Responsible for managing, installing, and maintaining the City's Fiber Optic Infrastructure which covers the entire city and provides services for Information Technology, SCADA, Radio, Advanced Metering Infrastructure (AMI), and Smart Grid technologies

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- Responsible for managing, installing, and maintaining the City's SCADA network and server hardware, which operates independently of the City's IT network. This network includes wide area network connections to 7 other locations throughout the state of Virginia and also the Internet for remote access to SCADA data
- Responsible for development and administration of databases on a MS SQL 2008 server. The data is collected and archived for the purpose of providing real-time data on the Internet and sophisticated reports using a MS IIS Server and MS Reporting Services
- Responsible for development and deployment of reports and web design utilizing the data collected in SQL

Skills Summary

| PROGRAMMING | OPERATING SYSTEMS | ADDITIONAL SKILLS & SOFTWARE | |
|--|---|---|--|
| <ul style="list-style-type: none">• Web Design• HTML• CSS• Visual Basic• JavaScript• MS SQL | <ul style="list-style-type: none">• Server 2008• Some OpenVMS• Windows XP• Mac OS X• Some Unix/Linux• Some Windows 7 | <ul style="list-style-type: none">• Typing 60+ WPM• Outlook• Word• Excel• Access• PowerPoint• Adobe Acrobat Pro | <ul style="list-style-type: none">• Project• Visio• MSSQL Management Studio• Visual Studio• Visual Web Developer |

Applicable Training

CERTIFICATES OF COMPLETION OR CERTIFICATION IN THE FOLLOWING COURSES:

- Schneider Electric
 - Unity Pro Programming Level 1 & 2 for Modicon PLC's
- Learning Tree International Courses
 - # - Ethical Hacking and Countermeasures: Hands-On
 - #367 – Hands-On Intro to TCP/IP
 - #466 – Cisco Routers: A Comprehensive Hands-On Intro
 - #364 – Introduction to Internetworking: Switches and Routers
- QEI
 - Master Station (OpenVMS Operating System)
 - Database Training
 - Worldview-2000 (Graphical User Interface Application)
 - SCADA Operator
 - RTU Configuration
- AVO
 - Fiber Optic Splicing & Testing
- Allen Bradley
 - PLC-5 and SLC-500 Maintenance & Troubleshooting
 - SLC-500 Programming using RSLogix500 Software
- ProTech Category 5 Cabling Certification, Fiber Optic Terminating, Splicing, & Cabling Specialist

References

Brett Massey, Engineer
11283 Gravel Road
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540-825-4162
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Mark Bly, Director of Power & Light
1050 Pretlow St.
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Tim Ploeger, Engineer
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