

WORK EXPERIENCE

Lead Electronics Engineer for Jet Engine Test Cells

Naval Air Depot, Cherry Point

2001— Present

North Carolina

I am currently the Depot's jet engine test cell Electronics Engineer. This makes me the facility's primary electronics engineering and design consultant in the specialty areas of instrumentation and control systems for the test cells. I have prepared and reviewed specifications for both new test systems and modifying existing systems. I have also modified our existing systems to meet new and emerging requirements by providing designs, consultation, and direct technical assistance to maintenance, production, calibration, and outside entities in both public and private sectors.

In addition, I provide engineering support to various test systems and production equipment throughout the Depot. This support includes design work, specifications for new equipment, modification of existing equipment, direct technical support, and consultation.

I have also graduated from Cherry Point's CO-OP program. During this period I aided senior members of Plant Engineering in investigating and completing assigned tasks and engineering requests. I used the Division's drafting procedures and standards daily to produce drawings and retrieve information. I used and became familiar with the division's technical writing standards for writing memos, procurement packages, statements of work and lockout/tagout procedures. In addition, I was introduced to the Depot's industrial automation, rotor balancing, and hazardous gas detection systems. I proposed multiple industrial lighting designs, conducted short circuit and coordination studies using EDSA, and worked closely with the Occupational Safety Branch, Facilities Maintenance, Mechanical, Industrial, and Environmental Engineering Branches to complete various tasks.

Engines Tested

- T58
- T400
- T64
- F402

Awards

- On the Spot Award (2001)
- Employee of the Month, September 2005
- Multiple Sustained Excellence Awards and Informal Recognitions.

Electrician's Assistant

Greenville

1998-1999

North Carolina

My responsibilities at Pitt Electric, an industrial/commercial electrical contracting group, included pulling wire, connecting various multi-phase circuits, running conduit, testing circuits, cleaning up, and fetching tools and supplies.

EDUCATION

North Carolina State Univ.

Raleigh

2003

North Carolina

Contact Info:

(252)464-9558 (Work)
(252)241-4850 (Mobile)
(252)728-6285 (Home)

Bachelor's of Science in Electrical Engineering.
Passed EIT Exam (Cert Num. A-20298)

<http://www.westmouthbay.com>
josh@westmouthbay.com
joshua.guthrie@navy.mil

PROFESSIONAL WORK

Member, Institute of Electrical and Electronics Engineers.

E. Cline, J. Collins, J. Guthrie, M. McClees, "Multiple Engine Test System," U. S. Patent 7,000,460, February 21, 2006.

TRAINING

Engine Vibration Health Monitoring. Craven Community College. June 2006.

NAVFAC Contracting Officer Representative COR/COAR/NTR On-site.

PLC-5 Programming by Rockwell Automation in Carry on January 2006.

Technical Writing Basics at Craven Community College on May 2005.

Writing Statements of Work by J&K Associates on April 2005.

Technical Specification Writing for Procurement by Marsh Inc. on September 2004.

National Electrical Code (2004) by NFPA on September 2004.

General Industry Safety Standards by NAVOSH, on August 2004.

AC & DC Motors and Drives Fundamentals by Rockwell Automation on August 2004.

Analytical Troubleshooting on August 2004. On-site.

PLC-5/SLC 500 Fundamentals Using RSLogix by Rockwell Automation on July 2004.

NetLinx and Kentix On Tour Seminar by McNaughton McKay Electric on June 2004.

Power Quality/Transient Surge Suppression Seminar by by McNaughton McKay Electric on April 2004.

A Guide To the National Electrical Code by North Carolina State Univ. on October 2003.

LabView Instrument Control by MicroCraft on June 2003.

LabView Data Acquisition and Signal Conditioning Course by MicroCraft on June 2003.

LabView Data Logging and Supervisory Control Course by MicroCraft on June 2003.

LabView Basics II by MicroCraft on June 2003.

(Incomplete list)

COMPUTER SKILLS

UNIX, Linux, Windows 9x, Windows NT/XP, C++, Object Oriented Programming, LabView, PHP, MySQL, MS-Word, Excel, PowerPoint, WordPerfect, AutoCad, Microstation, SolidWorks, VS-FTP, BASH Scripting, Apache, Sendmail, Corel Photo-Paint, Adobe Photoshop, Maple, Matlab, H Spice, P Spice, EDSA, and Troubleshooting.

Designed and implemented my personal web identity. Provides PHP and HTML web pages via Apache and email services via Sendmail and SquirrelMail. It is hosted on a Fedora Core PC that I maintain. <http://www.westmouthbay.com>

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