Mark Yusko

Lead Software Engineer JTT - Lockheed Martin

Magnolia, NJ - Email me on Indeed: indeed.com/r/Mark-Yusko/f2a52b799e2e2f66

WORK EXPERIENCE

Lead Software Engineer JTT

Lockheed Martin - Aberdeen Proving Ground, MD - October 2012 to Present

Responsibilities: Software engineering consulting.
Software Development and Testing Consultant; US Army SEC Directorate, Aberdeen Proving Ground, Maryland
Lead software engineer and test engineer for Joint Tactical Terminal (JTT) tactical satellite radio. Work involves developing VxWorks
RTOS-based embedded software builds and integration using Agile SCM and continuous build methods. Executes integration and testing configurations and end-to-end protocol translations using XML DTD.

Software Manager

BAE Systems - Belcamp, MD - March 2012 to October 2012

Responsibilities: Software engineering consulting.
Systems Project Manager; US Army CERDEC CP&I Directorate, Aberdeen Proving Ground, Maryland
Lead software engineer and test engineer for developing SNMP network management communications for FBCB2/JBCP network.
Work included developing Linux gateway using C/C++/Boost software on VMware-based Linux Ubuntu/ CentOS VMs and configuring both Linux and Windows-based SNMPc Network Management Systems (NMS). 6-month contract ended 29-Sep-2012.

Associate

Booz Allen Hamilton - Belcamp, MD - November 2010 to January 2012

Responsibilities: Systems engineering consulting and proposal development.
Systems/RF Engineering Consultant; US Army CERDEC I2WD Ground Branch, Aberdeen Proving Ground, Maryland
Lead systems engineer and RF test engineer for Electromagnetic Emanations (EME) lab platform and THORIII jammer, respectively.
Work included RF system design, calibration and testing from EME system to RF test beds and RF chamber. Conducted FPGA
firmware and embedded Linux software upgrades for THORIII jammer. Trained PM-CREW associates on management of upgraded
EME system.

Lead Member Engineering Staff

Lockheed Martin MS2 - Moorestown, NJ - September 2004 to May 2010

Temporary Duty Assignment

Lockheed Martin MS2 - Akron, OH - March 2006 to February 2007

Last Assignment: CGS/Deepwater COMMS and Sensors systems engineer for USCG National Security Cutter 2 (Waesche)

Responsibilities: Internal and external communications suite engineering support, including secure RF communications.
Other Assignments: 1) Missile Defense (BMD) systems engineer; 2) Halifax SRR DOORS requirements engineer 3) SM-6 and NIFC-
CA studies for SPY/AEGIS radar; 4) Royal Australian Navy (RAN) SM-2 Performance Specification (P-Spec) and 3.1 requirement
analysis; RAN SM-2 Flyout analysis. 5) Coast Guard Systems (CGS)/Deepwater COMMS systems engineer for USCG National
Security Cutter 1 (Berthoff). L-3 subcontractor management responsibilities for ship and shore COMMS systems: DOORS P-Spec, 3.1,
3.2 and Cutter Specific Certification Matrix (CSCM) requirement compliance; TEMPEST, Information Assurance (IA) and SPAWAR
compliance of delivered equipment; CGS-to-USCG proposal generation.
TDY Assignment: Lead systems engineer in Akron, OH for DARPA/US Air Force Optical RF Combined Link Experiment (ORCLE).
Engineering responsibilities: P-Spec requirement development and product test support for the program. The ORCLE experiment
creates an air-air-ground RF and Optical (Laser-based) data link, of very high bit rates, over great distances.
First Assignment: Deepwater lead COMMS systems engineer for USCG Fast Response Cutter (FRC).
Engineering responsibilities for the ship's COMMS system: DOORS performance specification (P-Spec), 3.1, 3.2 and Cutter Specific
Certification Matrix (CSCM) requirement compliance; L-3 subcontractor management; the design, selection, purchase and integration of all interior and exterior (RF) COMMS gear. The FRC COMMS system consists of internal and external voice, data and video
communications distribution systems of both tactical and non-tactical nature which connect through tactical and non-tactical RF-based
line-of-sight or over-the-horizon links and/or shore ties. Additional responsibilities included managing weekly issues and both creating and presenting review material at regular Engineering Technical Reviews (ETRs) for USCG acceptance.
Other Assignments: LANdroids proposal; FRC-A and FRC-B COMMS proposals; IP-based RF COMMS IRAD.

EDUCATION

Master of Science in Electrical/Computer Engineering

Stevens Institute of Technology
September 2013

Master of Science in Telecommunications Management

Stevens Institute of Technology
1995

Bachelors of Science in Electrical Engineering

Villanova University
1982

ADDITIONAL INFORMATION

CAREER SKILLS

• Embedded Software Engineering • Agile Software Development • MS / UNIX / Linux Server Admin.
• Systems Engineering • Program Management Support • Cost Reduction Strategies

• RF and Optical Engineering • Project / Product Management • Proposals / Presentations
• Network Engineering • Capital Budget Management • International Network Integration
• Radar Engineering • Research and Development • New Product Development
• System Integration and Testing • FPGA Design • Pre-Sales / Post-Sales Support
• C4ISR Integration and Testing • Digital / Analog Design • Customer Engineering

TECHNICAL SUMMARY
Development Software Applications/Operating Systems/Languages/Libraries:
WindRiver VxWorks RTOS; Enterprise and Embedded Linux; Windows 7, Vista, XP; Solaris; HPUX; Eclipse, MS Visual Studio;
Trolltech Qt; C++/C; Boost C++ Libraries; XML, HTML; Java; Ant; Python; Perl; Go; Net-SNMP; 80x86, 680x0 and ARM Assembly; Git,
SVN, Hudson, JSON, Scons, Make, Openembedded; Microsoft ASP and VBScript; JavaScript; SQL; ODBC; Pascal, Basic, Fortran
Software Apps/Requirements Management Apps/Databases/Common Desktop Apps/Network Mgmt. Apps
IBM Rational Rhapsody, System Architect, Rose, ClearCase, RequisitePro; VMWare; VirtualBox; Matlab; MathCAD; Lucent NavisCore
ATM NMS, NavisAccess, NavisRadius, Radius ABM and QIP 4.0; GDC ProSphere ATM NMS3000 4.0; Oracle for Workgroups,
Sybase; Informix; Microsoft Word, Excel, PowerPoint, Visio, Access, Project; SNMPc NMS; OpenNMS; HP OpenView
RF COMMS:
Agilent spectrum/network analyzers, Rhode & Schwartz XK2100L HF transceiver, Rockwell Collins RT-2200 HF transceiver, Rockwell
Collins 1851C V/UHF tactical transceiver and AM-7526 UHF MILSATCOM PA, Rockwell Collins MDM-Q9604 M/HF data modem, L-3
Com DSC500Pro-M VHF marine radio, ICOM F60 UHF portable radio, Furuno FS-1570 HF/GMDSS and Felcom 15 Inmarsat-C
transceivers, Mykotronx KIV-7HSB data crypto, M/A-COM M7100 V/UHF P25 transceivers, Thrane & Thrane TT-3064A Mini-M radio.
Network Topologies and Protocols:
[…] b & g; TCP, UDP, IP, Ethernet, ATM, Frame Relay, Dial-up IP over Frame Relay, SONET, ISDN PRI, SDSL, VDSL, ADSL,
X.25, FDDI, Token Ring, SNA, SIP, RTP, L2TP, PPP, SNMP, SS7, SMTP, DNS, DHCP, MPEG2
Networking Equipment:
L-3 Com MarCom voice switch and KITEs, Cisco 7200 & 4500 routers; Lucent PathStar IP Class 5 switch, GX550 and CBX500 ATM
switches, MAX TNT WAN Access switch, Portmaster 4, Sahara, Conversant call adjunct, 4ESS voice switch; 3COM routers; Marconi
ASX1000 ATM switch; GDC APEX ATM switch; HP ATM test equipment; Sun 450 enterprise servers and Ultra 10/5 workstations;
HP/Dell servers and workstations; Paradyne AAC; Alcatel-Telematics X.25 switches; Network General Sniffer; T-Bird; HP datascope