

Nita Kantilal Patel, P.E., PMP

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Licensed Professional Engineer experienced in systems, embedded software and electrical engineering
Certified Project Management Professional knowledgeable in technical leadership, customer interface, work breakdown structures, resource planning, risk management and quality control
Collaborative **leader**, qualified **engineer**, exceptional **communicator** and innovative **problem solver**

PROFESSIONAL EXPERIENCE

L-3 Warrior Systems, Insight – Londonderry, NH – January 2008 to present

Software and Systems Engineering Director

- Supervise and lead Software Engineering and Systems Engineering organization
- Establish software processes for development, integration, configuration management, design reviews and issue tracking
- Create systems engineering guidelines and organizational processes
- Recruit, manage and monitor systems and software engineering team
- Technical lead/chief engineer and engineering program manager for \$16M advanced targeting system development
- Defined software architecture for advanced thermal imaging platform for next generation imaging products
- Provided systems engineering contributions for advanced infrared imaging and target location systems
- Supported advanced digital magnetic compass and wireless development

RS Information Systems, Inc. – Norman, OK – September 2002 to January 2008

Chief Engineer/Deputy Program Manager

- Successfully completed \$36M open-architecture, radar design, development and deployment project on schedule and under budget
- Supervised and managed milestones, risks and metrics across multiple disciplines (Systems, Software, Hardware and Test Engineering, Logistics and Deployment) throughout all phases of the project lifecycle
- Technical liaison to Government and sub-contractors
- Developed, evaluated and implemented radar hardware and software designs and trade studies
- Developed, implemented and verified quality, development, test and engineering plans and processes
- Researched and wrote technical volumes for radar proposals
- Designed and developed C software for system diagnostics and calibration
- Analyzed and developed MatLab signal processing and clutter filtering algorithms

Insight Technology, Inc. – Londonderry, NH – March 1999 to September 2002

Secret Clearance: 2000-2002

Lead Electrical and Software Engineer

- Designed and integrated embedded C software for Fused, Infrared & I² Goggles and Laser Rangefinders
- Designed image acquisition, processing and test software in Labview, MatLab and Visual Basic
- Evaluated, developed and implemented image and signal processing algorithms
- Re-designed consultant's mixed analog/digital hardware design for Laser Rangefinder
- Designed a high-precision, angular measurement system for grenade-launcher range determination
- Wrote technical proposals for electro-optical aiming devices, infrared goggles and rangefinder systems
- Designed and developed micro-controller code and circuit card schematics using OrCAD and PSpice

Raytheon/Texas Instruments – McKinney, TX – July 1995 to March 1999

Secret Clearance: 1997-1999

Lead Test Equipment and Electrical Engineer

- Scheduled, coordinated and delegated activities for design project team members
- Designed Windows-based C and LabWindows/CVI software for automated acceptance, environmental, and diagnostics test stations for FLIR systems and circuit card assemblies
- Designed and implemented test hardware with GPIB and VXI instruments for automated test systems
- Created and maintained test requirement specifications, hardware drawings, and test procedures
- Designed and developed electrical prototype for VXI data acquisition board
- Wrote technical proposal sections for classified FLIR systems

EDUCATION

M.S.Cp.E. Computer Engineering; December 1998; Southern Methodist University; Dallas, Texas

B.S.E.E. Electrical Engineering; Magna cum Laude; May 1995; Southern Methodist University; Dallas, Texas

B.S. Mathematics; Magna cum Laude; May 1995; Southern Methodist University; Dallas, Texas

PROFESSIONAL AFFILIATIONS

- IEEE (WIE ILC Chair, Women in Engineering International President, VP IEEE-USA, Computer Society Board of Governors, Eta Kappa Nu Board of Governors)
- Toastmasters International (division, area & club roles)
- United States Chess Federation (Tournament Director)
- Project Management Institute
- Society of Women Engineers (life member)
- Tau Beta Pi
- Mensa (life member)

AWARDS

2014 IEEE MGA Larry K Wilson Transnational Award

2014 L-3 Engineer of the Year

2011 New Hampshire Engineer of the Year

2010 IEEE MGA Leadership Award

2010 Toastmasters District 45 Division Governor of the Year

2008 IEEE-USA Professional Achievement Award

2003 RSIS President's Award for Technical Excellence

2003 National Weather Service OS&T Systems Engineering Center Special Citation