

## David E. Wilder

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[www.WilderPE.com](http://www.WilderPE.com)

### EDUCATION

**M.B.A.**, 1997, Nova Southeastern University, Fort Lauderdale, Florida

1977-1981, University of Alabama in Huntsville, 48 semester hours of **graduate EE work**

**Bachelor of Electrical Engineering** (with honor), 1976, Auburn Univ., Auburn, AL

### CERTIFICATIONS

Professional Engineer (**PE**) in the state of Alabama, since 1981

Certified Project Management Professional (**PMP**), since 2004

Registered U.S. **Patent Agent**, since 2000

### SECURITY CLEARANCE

**Secret** clearance awarded 2006

### PATENTS

5,661,726 - "Advanced Communication System Architecture"

5,870,428 - "Method For Providing Remote Loopback Testing In A Digital Data System Having Multiple Protocols"

6,557,170 - "Keyboard, Mouse, Video And Power Switching Apparatus And Method"

### COMPUTER SKILLS

Very experienced with Microsoft Project, Excel, PowerPoint, and Word

### TECHNICAL SKILLS AND EXPERIENCE

Electronic hardware design (analog, digital, video, communications, design for manufacturability).

Software design (C, C++, 8051 assembler, Basic, Pascal).

Systems Engineering (requirements definition, verification and validation, Reliability Availability Maintainability).

### PROFESSIONAL SUMMARY

**Engineering** - Design experience and technical management experience in developing a wide range of electronic products: aerospace products, commercial products, consumer products, embedded systems, video transmission products, high speed data communication products, software applications. Experienced at all aspects of the development process: product conception, system design, verification testing, release to manufacturing, support of volume production. Experienced at managing multidisciplinary teams of engineers and defining product development procedures. Experienced in everything from a research environment to high-volume manufacturing environment. **Registered Professional Engineer** in the state of Alabama.

**Project Management** - Trained and experienced in all aspects of project management including initiating projects, building multidisciplinary teams, developing schedules and budgets, identifying critical paths, managing risk, resource planning, tracking progress, presenting status to executive management, and delivering quality products on time and within budget. Familiar with the use of tools such as Gantt charts and Work Breakdown Structures. Accustomed to participating in contract efforts, interfacing with customers at all levels, and working under Federal Acquisition Regulations (FAR) and Department of Defense (DoD) regulations. Certified **Project Management Professional (PMP)** by the Project Management Institute (PMI).

## **CAREER SUMMARY**

Engineering Consultant and Patent Agent, Huntsville, AL

08/2009 – present

- Contract engineering – hardware, software, and system design.
- Project management – schedule, budget, subcontractor management.
- Patent applications and evaluations (see [www.huntsvillepatents.com](http://www.huntsvillepatents.com)).
- Work alone or with various partners, depending upon the nature and magnitude of the task. Can quickly locate needed engineering talent or partner companies.

Kratos / Digital Fusion, Huntsville, AL

06/2006 – 08/2009, Embedded Systems Team Lead & Deputy Program Manager

- As the Embedded Systems Team Lead and a technical contributor, led the successful development of a flight computer and associated electronics for a proof-of-concept missile design, fabrication, and test program for the U.S Army (the NLOS-T program). The system included an IMU, GPS receiver, telemetry components, control actuators, and radar transponder.
- Did the circuit design for the Control Actuation System.
- Designed a tester using a Rabbit Semiconductor module and embedded C.
- Selected Commercial Off The Shelf (COTS) components and did characterization testing to qualify those components for the NLOS-T program.
- Helped build and manage a multidisciplinary team of engineers (EE, ME, S/W, Aerospace).
- Developed the overall project schedule for the 3 year missile design program.
- Planned and tracked the program budget.
- Managed patent activities as the Digital Fusion IP Coordinator.
- Laid off due to loss of funding and elimination of the division following a merger.

Sanmina-SCI, Defense and Aerospace Systems Division, Huntsville, AL

01/2006 – 06/2006, Integrated Product Team Leader

- Led a design team in the initial stages of developing a secure wireless peripheral to a multipurpose intercom / data switch network.
- Led a cross-functional team in taking charge of and turning around a build-to-print project that was behind schedule and had technical problems.
- Helped write the division's Design and Development Procedure in an ISO9000/AS9100 environment.

Dynetics, Inc., RF and Electronic Systems Group, Huntsville, AL

03/2005 – 01/2006, Senior Principal Engineer

- Developed a test plan, customized some telemetry equipment, and performed tests to evaluate the feasibility of using wireless telemetry modules within a wind tunnel for data collection.
- Analyzed raw measurement data, did some statistical analysis, and helped isolate performance problems during the development of a torque wrench calibration system for the United States Army.
- Performed foreign material evaluation of portions of a foreign missile system.
- Developed a test plan for evaluating the unintended radiated emissions of a foreign weapon system.

Avocent Corporation (formerly Cybex Computer Products Corporation), Huntsville, AL

2001 – 03/2005, Technical Manager / Senior Technical Manager

1997 - 2001, Engineering Manager

- Led engineering staff of 10 & served as project manager in a matrix organization.
- Served as a technical expert on wideband video circuits and EMI issues.
- Did analog design of video circuits as well as some digital hardware design.
- Designed a remote power control device, including the hardware design and assembler programming.
- Wrote some software tools in C, Pascal, and Basic.

- Served as Engineering's representative to the corporate Product Planning Committee, which evaluates new product ideas.
- Contributed to the creation of a corporate Product Development Procedure to help successfully achieve ISO-9000 certification.
- Defined product strategies and led design teams in developing cost-reduced and improved versions of several older products.
- Organized and Coordinated patent activities.
- Recruited engineers and technicians to expand the engineering department.

Motorola Transmission Products Division (formerly Universal Data Systems, now closed), Huntsville, AL

1990 - 1997, Engineering Manager

1983 - 1990, Design Engineer/Sr Design Engineer/Principal Engineer

- Led the design and development of a variety of telecommunications equipment
- Did a variety of design tasks for hardware (analog and digital) as well as software (assembler, C, Pascal, and Basic).
- Achieved cycle-time reduction by organizing and leading cross-functional teams.
- Planned and tracked project schedules and budgets.
- Contributed to the planning & implementation of ISO and Six Sigma procedures.
- Managed a staff of 35 project managers, engineers, and technicians.

AVCO Electronics (later AVEX Electronics, now Benchmark Electronics), Huntsville, AL

1976 - 1983, Engineer

- Circuit design experience on a wide variety of projects.

## **TEACHING EXPERIENCE**

Calhoun Community College, Adjunct Instructor, Fall 2004, - Spring 2008

BUS271 - Business Statistics I and BUS272 - Business Statistics II

## **CONTINUING EDUCATION CLASSES**

*SYS101 – Fundamentals of Systems Engineering*, Defense Acquisition University, 2009 (in process)

*CLB016 – Intro. to Earned Value Management*, Defense Acquisition University, 2009

*CLB007 – Cost Analysis*, Defense Acquisition University, 2009

*Introduction to Microsoft Project 2007*, Calhoun Community College / Ed2Go, 2008

*ACQ101 - Fundamentals of Systems Acquisition Management*, Defense Acquisition University, 2005

*EO/IR Technologies and Phenomena*, Dynetics University, 2005

*DoD 101*, Dynetics University, 2005

*Design Capture for Expedition PCB Layout*, Mentor Graphics, 2004

*Management Course for Avocent- Level 2*, American Management Association, 2004

*Capstone Business Simulation*, Management Simulations Inc., 2004

*Communication and Interpersonal Skills*, American Management Association, 2004

*PMP Examination Review*, U.A.H. Continuing Education, 2004

*Senior Project Management*, American Management Association, 2004

*Quality Management and Performance Measurement*, U.A.H. Continuing Ed., 2004

*Project Procurement and Contract Management*, U.A.H. Continuing Education, 2004

*Risk Concepts and Management*, U.A.H. Continuing Education, 2004

*Improving Your Managerial Effectiveness*, American Management Association, 2003

*Improving Your Project Management Skills: The Basics For Success*, American Management Association, 2003

*Fundamentals of Patent Prosecution*, Practising Law Institute, 2002

*Introduction to Red Hat Linux*, University of Memphis Continuing Education, 2001

*Patent Bar Review*, Patent Resources Group, 1999