WAYNE B. NORRIS

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ENGINEER

ENGINEERING EXPERIENCE SUMMARY

• Biomedical	• Aerospace	• Radar
• Vibration	• Infrared	• Robotics
• Aircraft	• Simulators	• EW Systems

INDUSTRY EXPERIENCE:

• Aerospace	• Biomedical	• International
• Software	• Telephony	• Outsourcing
• Retail / POS / Restaurant	• Stocks	• Consulting Services
• Defense / National Security	• Environmental	• Oil & Gas
• Dot-Com	• E-Cash	• Airline Security

- More than 15 years working in laboratory and engineering environments.
- Authored more than 100 documents related to installation, operation, maintenance specifications, and instructions.
- Engineered numerous prototype construction and checkout efforts, including spaceborne experiments, vibration test stands, radiation test stands, microwave models, and aircraft simulator testbeds.
- Technical and management point of contact with the COTR in several US Government projects, worth millions of dollars providing technical input and briefings, advice on upcoming programs, assistance with requirements definition and analysis, and engineering project management.

RECENT EXPERIENCE

Expert Witness, Software Consultant [Feb 2002 - Current]

I do expert witness work in state and federal courts in patent and computer forensic cases, and develop software for customers.

Software Program Manager, Advantage Business Computer Systems, Inc. [July 2001 – Feb 2002]

ABCS produces Point-of-Sale, back office, and accounting software for the wholesale and retail lumber, home center, hardware, apparel, and food industries, with 1,500 installations worldwide. I was the project manager for the team developing the core of their Version 5.

Senior Program Manager, 3DstockCharts.com [July 2000 – April 2001]

3DStockCharts.com produces real-time 3-D displays of full-book bid/asked prices for stocks on the major Electronic Communication Networks [ECNs], using client-side browsers. The site has 75,000 subscribers, over 50,000 daily hits, and is used by stock traders around the world.

Research & Development Manager, Biopac Systems, Inc., Goleta, CA [March 1999 - July 2000]

Biopac Systems manufactures a line of medical instruments for research and education. Biopac products include equipment to monitor and record over 40 electrophysiologic channels including heartbeat, EEG, EKG, EMG, plethysmograph, and numerous others.

My responsibilities included management of the newest release of the core product. I managed a group of 11 engineers developing software and hardware, and participated in laboratory engineering with my staff engineers.

Vice President, Emulation Systems, Inc., Santa Maria, CA 1998 [January – September 1998]

Emulation Systems, Inc. built aircraft and truck simulators for use in the US Government, civilian training, and entertainment industries. Our products included FAA certificated simulators for Cessna 172 and 182 aircraft, plus realistic simulators for the F-18, Cessna 210, and Beech 19 series of aircraft, the Hughes 500 series helicopters, as well as truck-mounted spray-boom applicators. All simulators had full-featured, high-resolution terrain graphics and full control loading, as well as full Jeppeson navaid and terminal databases.

My responsibilities included management of Engineering, R&D, Manufacturing, and Customer Support. I was responsible for costs, schedules, milestones, and staff assignments. I also did extensive reviews of the electronics, RF shielding, isolation, mechanical hardware, C code, mathematical algorithms, and physics models.

I engineered and produced a full-scale F-18 simulator, including a 6DOF motion base and a 16 foot diameter hemispherical projection screen with target and terrain imaging via an LCD projection system with customized optics.

Vice President, Science & Technology, Chief Technology Officer, Typhoon Software, Santa Barbara, CA [November 1992- December 1997]

I managed 80 people, including 55 computer scientists and managers. We performed 57 engineering projects for 41 customers over 5½ years, including 7 Fortune 500 companies.

I was the leader of a successful 8-person, 4-month proposal effort for a $7.5 million rewrite of the entire Guam government software environment.

Director of Federal Systems Division, ExperTelligence, Inc., Santa Barbara, CA, 1990-1991

I managed the largest object-oriented hypertext software development project ever undertaken for the US Government, Dynamic Documents™, for a customer in the National Security community. We delivered a prototype, and then negotiated a multi-million-dollar follow-on contract for the next several years. My responsibilities included project management, budgeting, scheduling, Government reporting, security management, and technical management.

Member of Technical Staff, General Research Corporation, Santa Barbara, CA, 1985-1988

- Founder / manager of the Robotic Software Department at GRC subsidiary, Semifab, Inc.
- Proposal manager of multiple projects within the National Security community.
- Work on EW related projects
- Marketing, especially to the Defense and National Security communities. I conducted seminars in new research findings for potential customers throughout the U.S., and coordinated numerous proposal efforts.

Other Relevant Experience

- Development of a computerized network of stations for functional testing of satellite-based IR detectors [Santa Barbara Research Center]
- Development of a computer controlled vibration test set for researching microphonic noise in IR detectors [Santa Barbara Research Center]
- Development of a visual scanner for microchip wafer testing [Nanometrics, Inc.]
- Work on the M-1 tank gun stabilization system [Delco]
- Work on the AN/SLQ-32 Shipboard fire control system [Raytheon]
- Work on the Minuteman trajectory telemetry and destruct command systems [ITT / 4392nd Launch Wing, Control Data Corporation]
- Work on microwave and radionuclide-based analytic systems [Rockwell]

- Computer programming in twenty-seven different environments, including Windows, DOS, Linux, Solaris, and embedded systems, in thirty languages, including C, C++, Java, Visual Basic, and numerous assembly languages and older languages.
- Research and applied physics in numerous areas, including electromagnetics, air and water quality, aerodynamics, and mechanics.

EDUCATION

- University of California, Santa Barbara: B.A. Physics
- Santa Barbara City College: Courses leading to designation as a CPA in 2003
- Microsoft Certified Professional [MCP] designation
- University of Texas, Austin: Professional Certificate, HAZOPS / Risk and Management
- DOD Industrial Security Institute, Honolulu, HI: Security Management Certificate
- UCSB: Graduate work in Advanced Mathematics and Physics, Human Factors, and Ergonomics