

John Wilson
Senior R&D Engineer/Scientist
Principal, Ramrod Technology, Inc.
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Professional Strengths

- Broad and deep multidisciplinary skills with hands-on experience
- Expert in software / hardware engineering and R&D
- Exceptionally innovative, creative and entrepreneurial
- Excellent written and verbal communication skills
- Strong project management / team leader skills
- Highly motivated and self-initiating
- Excellent mentoring abilities
- In-house development facilities: software/firmware/electronic labs, machine shop

Technical Skill Areas

- Android/Java development
- Internet/Web/TCP/IP/HTML/HTTP/XML
- JavaScript/PHP/ASP/CGI
- Win32/Unix/Linux/C/C++/Network
- Microprocessor/embedded real-time systems design/implementation, firmware
- Digital Signal Processing
- Computer graphics, Image processing, Audio/Video/Multimedia processing
- Physics, Optics, Electro-Optics, Sensors – analysis and design
- Security Systems, Industrial Automation
- GIS, GPS, AVL, Cartography
- Wireless/RF hardware/software application integration
- Electronic design, analog/digital/hardware/software/PCB Layout
- Technical writing, proposals and presentations
- Technical project management

Education

Graduate

Polytechnic Institute of Brooklyn
M.S. ElectroPhysics 1973

College

The Cooper Union New, York, NY
B.S. Electrical Engineering 1971

Accomplishments

RAMROD TECHNOLOGY, INC. 2013

Principal.

HYPERDYNE, INC. [CONSULTING] 2000-2012

Principal. Developed commercial Android apps for security and GIS. Developed GPS tracking system: hardware/firmware/software/servers; GIS/Cartography; Integrated security systems; Digital Signal Processing; Sensor Design, Industrial Automation, Multimedia programming; Optical sensor analysis, design and simulation. Consulting and software development services; Internet server programming using Java, JavaScript, ActiveX, PHP, HTML/HTTP/DNS; Custom TCP/UDP-based clients & servers developed.

HYPERDYNE, INC. [PRODUCT DEVELOPMENT] 1987-2000

Principal. Advanced computer hardware, software, applications and systems. Designed and developed all company hardware and software products. Software design & coding; Graphical User Interfaces/Win32/Unix; analog/digital circuit design, circuit board layout and mechanical design; vendor evaluation and selection; embedded firmware; technical pubs, manufacturing documentation packages, user manuals; customer support; web design, Internet programming, custom TCP/IP Internet applications; wireless technology integration; proposals; corporate and technical management.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION 1981-87

Senior Engineer. Operation and management of R&D Lab. Technical direction of numerous R&D and contracted projects. Wrote technical sections of many proposals for federal IT procurements.

SWL INCORPORATED 1981

Senior Engineer. Analytic and program support for several R&D projects for naval intelligence. Test plans and program planning for intelligence/reconnaissance, sensor requirements and specifications. Analysis of FLIR systems, signal processing, ECM/ECCM.

SCIENCE APPLICATIONS INCORPORATED 1979-81

Scientist. Systems-level study of high energy laser weapon systems. Developed detailed computer simulation of full-scale hardware and software.

GENERAL RESEARCH CORPORATION 1973-79

Senior Engineer. Analyses of E/O and electronic systems, radar, laser radar, IR systems, target signatures, active & passive imaging, pointing & tracking, adaptive optics, high energy lasers, computer simulations, BMD, space defense.

Personal Data

U.S. citizen, previous clearance.