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## **STEPHEN H. SMITH**

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**1620 Whitefield #7  
Pasadena, CA 91104**

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**<http://wa8lmf.net>**

I have over twenty-five years experience in systems integration, performance & acceptance testing, and hands-on trouble shooting of a wide variety of complex radio-based electronic systems, My experience ranges from high-power AM-FM-TV broadcast systems, through land mobile HF-VHF-UHF voice, data and AVL systems, to low-power 802.11 wireless LAN devices.

I am single, a renter, and am open to relocate on short notice, and am able to work on-the-road on irregular schedules and for extended periods.

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## Career Summary

- Over twenty-five years experience in systems design & integration, commissioning & performance/acceptance testing, and hands-on trouble shooting of a wide variety of complex radio-based electronic systems.
- Emphasis has been on HF/VHF/UHF land-mobile radio systems and wireless data systems.
- Experience ranges from high-power AM-FM-TV broadcast systems, through land mobile voice, data and AVL systems, to low-power 802.11 wireless LAN devices.

## Experience

### Self-Employed

June 2006 – Present

#### Small Business PC Systems Integration and Consulting

- Configure, modify and interface PC hardware and software for custom applications.
- Write reference cards and guides for clients and user groups.
- Windows setup/configuration/optimization. File-format conversions.
- LAN installation, configuration and debugging small businesses. PC Security and Virus/Spyware Extermination. 802.11 Wireless LAN and long-haul link design, setup, configuration
- Setup dual-boot Windows/Ubuntu systems and virtual machine installations.

### NTIA (National Telecommunications & Information Administration)

Jan - May 2006

#### Telecommunications Systems Engineer

- Interoperability evaluation of Project 25 LMR radios.
- Setup and configuration of “test-bed” systems and software for evaluations.

**MOTOROLA CGISS  
Systems Technologist**

**July 2004 - Feb 2005**

- System Integration, Installation, Configuration and Debug of large-scale multi-site 800 MHz SmartZone digital trunked land mobile radio systems.
- Oversight of Tower Riggers and Antenna Installers.
- Modified Centracom console audio routing to overcome customer objections.
- RF interference and coverage investigations on VHF & UHF conventional LMR systems.

**LOS ANGELES COUNTY Communications Department  
Telecommunications Systems Engineer**

**April 1996 - June 2002**

- Built and demonstrated prototype GPS/GIS/AVL (automatic vehicle location) system operating over existing Sheriff's UHF radio network.
- Modernized control systems in Sheriff's radio networks.
- Reviewed design proposals for next generation joint Fire/Sheriff radio system.
- Radio signal-coverage and interference tests and measurements on numerous projects using my GPS-based automated mapping system including: Relocation of county microwave links to the 2 GHz band; Evaluation of simulcast problems on 470 conventional and 800 MHz trunking radio systems; Investigation of interference and performance problems on 463 MHz paramedic radio systems.
- Provided technical consulting and advice on radio issues to non-technical supervisory personnel in Sheriff's Dept, Fire Dept and Health Services Paramedic Dept.

**SOUTHERN CALIFORNIA GAS COMPANY  
Telecommunications Systems and Field Engineer**

**1993 - 1996**

- Design and system integration of 40-site 900Mhz mobile-data radio system.
- Developed acceptance testing procedures and built GPS-based automated mapping system for radio signal-coverage measurements.
- Created combined radio and data network diagram of complete system used by many other departments.
- Investigated causes and devised solutions for RFI problems.

**LOS ANGELES COUNTY Communications Department  
Telecommunications Systems Engineer**

**1987 - 1990**

- Design and system integration of new radio systems for Sheriff's Department.
- Digital upgrade to county-wide Emergency Broadcast System.
- Developed specifications for radio systems for new county Emergency Operations Center.
- Designed and built automated system to measure radio signal coverage for (a) preliminary frequency coordination of 800-MHz radio system, (b) investigation of

user problems on existing radio systems and (c) acceptance testing of new systems.

**E-SYSTEMS, Hawthorne, CA**  
**Design, System, and Field Engineer.**

**1980 - 1982**

- Design, system integration and acceptance testing of VHF/UHF data and voice mobile radio system for Los Angeles Police Department.

**U.S. ARMY, American Forces Vietnam Network**  
**Broadcast Engineer.**

**1968-1970**

- Installed FM broadcast station . Maintained and operated TV station.
- Serviced HF/SSB transceivers.

**Education/Training**

B.S. Electronic Engineering Technology  
Lake Superior State University, Sault Ste. Marie, Michigan