

**Stephen H. Smith**  
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**[ Actual Resume begins on next page ]**

Single, U.S. citizen, with good oral and written English, rents in Pasadena, CA and relocatable. Current Salary \$75,000

I am a **Radio Telecomm Systems Engineer** with over twenty years experience in systems design, integration, performance/acceptance testing and hands-on trouble shooting of HF/VHF/UHF land-mobile radio systems. (see attached resume). My 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.

I worked for the County of Los Angeles in Public Safety Radio Systems Engineering until the well-publicized budget disaster in the State of California resulted in mass layoffs at the County level as well.

Just before my layoff from the county, I setup and demonstrated a prototype GPS-based AVL (automatic vehicle location) system, using inexpensive off-the-shelf components for the LA Sheriff's Department. Again, drastic county budget cuts prevented it from actually being deployed.

During my years with the County of Los Angeles, I developed a GPS-based radio measuring/mapping system used to perform numerous coverage surveys for the Sheriff and County Fire Department radio networks. This system combined several radio transceivers, an IFR-1500 communications monitor, GPS receiver, personally-developed interface hardware and software, and MapInfo GIS software.

In addition, I investigated complaints reported by Sheriff, Fire, Public Works and General Government radio users, tracked down sources of interference and recommended system changes and updates. Also dealt extensively with developing "stealth" antenna installations to overcome local objections to visible antennas on various county facilities.

**[ Resume begins on next page ]**

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Website: <http://wa8lmf.com>

B.S. Electronic Engineering Technology (1977) Lake Superior State University, Sault Ste. Marie, Michigan

## **EMPLOYMENT HISTORY**

NTIA (National Telecommunications & Information Administration) Jan 2006 - May 2006

**Telecommunications Systems Engineer** Interoperability evaluation of Project 25 LMR radios

MOTOROLA CGISS July 2004 - Feb 2005

**Systems Technologist** System Integration, Installation, Configuration and Debug of large-scale multi-site 800 MHz SmartZone digital trunked land mobile radio systems. RF interference and coverage investigations on VHF & UHF conventional LMR systems.

LOS ANGELES COUNTY COMMUNICATIONS DEPARTMENT April 1996 - June 2002

**Telecommunications Systems Engineer** 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.

SOUTHERN CALIFORNIA GAS COMPANY 1993 - 1996

**Telecommunications Systems and Field Engineer.** 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. Investigated causes of and devised solutions for RFI problems.

LOS ANGELES COUNTY COMMUNICATIONS DEPARTMENT 1987 - 1990

**Telecommunications Systems Engineer.** 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.

MORSE SECURITY PRODUCTS, Sylmar, CA 1984 - 1985

**Technical Manager, RF Products.** Hardware design, system integration and customer support of UHF-radio-based alarm and security systems. Engineering support for manufacturing.

E-SYSTEMS, Hawthorne, CA 1980 - 1982

**Design, System, and Field Engineer.** Design and system integration of VHF/UHF digital and voice mobile radio system for Los Angeles Police Department.

ROCKWELL-COLLINS, Cedar Rapids, IA 1978 - 1980

**Design Engineer.** Designed microprocessor-based digital tuning system for KWM-380 HF/SSB transceiver. Planned systems packages for buyers of HF-280 transceiver. Customer support for Collins S/Line. Engineering support for manufacturing.

U.S. ARMY, American Forces Vietnam Network 1968-1970

**Broadcast Engineer.** Installed FM broadcast station. Maintained and operated TV station. Serviced HF/SSB transceivers.

SELF-EMPLOYED 1985 - Present

**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.

## **OTHER INTERESTS AND ACTIVITIES**

Read widely about electronic industry, energy, international trade, business and economics. First Class radiotelephone license and Extra class amateur radio license since high school. Built stereo-FM broadcast system and computerized remote-controlled VHF/UHF radio systems. Amateur radio emphasis is on APRS (Automatic Position Reporting System), SSTV and radio/Internet interconnect. Modified equipment for and taught morse code and electronics to blind students. Big-band Jazz. Computer graphics, digital photography and desktop GIS.