Larry D. Gadallah

Sammamish, Washington
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Professional Profile:

- **Engineering Management**

  Responsible for maintaining efficient utilization of engineering staff and capacity planning for future needs.

- **Software Development:**

  Designed, implemented and tested a complete operations, administration, and maintenance (OA&M) software module for a TDMA pico-cell base station.

- **Project Management:**

  Managed a team that created a WiMAX-WiFi mobile gateway.

- **Client/Team Liaison:**

  Helped a major client and their vendor to determine their requirements, leading to a significant contract with this client.

- **Technical Expertise:**

  Software integration, debug, test and QA; Embedded/real-time software development; System and network administration and security; Wireless protocol analysis, design and implementation.

Work Experience:

Software Engineering Manager, May 2009 to Present

Elektrobit Inc., Bothell, Washington, USA – Contract Research and Development

Performed management and administration for a group of 25 software developers.

Responsible for project staffing, performance management, and budget management for the software engineering team. Responsible for QA policies and procedures for the US engineering team.

Senior Software Engineer, July 2002 to May 2009

Elektrobit Inc., Redmond, Washington, USA – Contract Research and Development

Managed software development team delivering RTOS abstraction software for TI's evaluation hardware. Worked at Texas Instrument's San Diego site and used their client build (Make) and configuration management (ClearCase) tools to implement and test software. Used Nokia proprietary tools (Phoenix, Ostrich) to flash and debug software on target hardware platforms.

Managed a small development team integrating TracFone prepaid client software onto a new Nokia handset and MMI software. Used Nokia’s proprietary MMI development tools to modify prepaid application and fix problems.

Helped to develop a CAN bus to Cellular gateway for BMW vehicles that would support remote diagnosis and testing of vehicle faults. This device was implemented using Windows Automotive (a variant of Windows CE).

Managed a small team of developers who were creating a portable, battery powered WiMAX-WiFi access point. This device was implemented using embedded Linux.

Staff Software Engineer, August 1999 to July 2002

GTran Inc, San Diego, California, USA – Wireless Technology Start-up

Designed, implemented, tested and documented C language API library used to interface Intel/DSPC IS-136 chipset protocol engine library and Nucleus Plus RTOS to Samsung's existing cellular handset MMI library. Negotiated interface specifications for API with Samsung and Intel/DSPC.

Iteratively integrated and debugged releases of Samsung's MMI library and Intel/DSPC's protocol engine and system software and ARM7TDMI based hardware. Used Intel/DSPC's debugging tools and Lauterbach TRACE32 JTAG equipment to locate software and hardware bugs. Integrated debug and trace capability into API library using Intel/DSPC's debugging tools.

Software Engineer, September 1998 to July 1999

Northern Telecom WDC, Calgary, Alberta, Canada – Telecommunications Manufacturer

Analyzed, designed, implemented and tested software revisions, modifications and fixes to OA&M components of the Nortel/Qualcomm CDMA cellular base station software. Reworked C++ code and CMIP/SNMP-derived managed object frameworks used to operate and administer CDMA cellular base stations.

Senior Software Engineer, June 1996 to September 1998

Aval Communications, Walnut Creek, California, USA – Wireless Technology Start-up

Designed and implemented software for a TDMA-based digital cellular telephone base station controller (BTS). Designed, implemented, and tested the operations, administration and maintenance (OA&M) and the TCP/IP network interface (Abis) software for the base station controller.

Performed software integration for the base station controller software including the creation of bootstrap ROMs and the implementation of network-based software download and upgrade facilities. Integrated the BTS software with Harris' BSC software contractor, River Run of India. Wrote the interface software for control and supervision of the DSP-based radio transceiver modules and vocoder modules.

Additional Experience:

System Administrator, October 1995 to May 1996
CANAC/Microtel, Ottawa, Ontario, Canada – Military/NATO Systems Contractor
System Administrator, August 1994 to September 1995
The University of Northern British Columbia, Prince George, B.C., Canada
UNIX System Administrator, August 1992 - August 1994
Atomic Energy of Canada, Pinawa, Manitoba, Canada – Research Laboratory
Software Consultant, May 1991 – August 1999
Yoyodyne Engineering, Airdrie, Alberta, Canada – Sole Proprietorship
Software Engineer, June 1989 - May 1991
NovAtel Communications, Calgary, Alberta, Canada – Cellular Manufacturer
Programmer/Consultant, December 1986 - June 1989
SynerLogic Inc., Calgary, Alberta, Canada – Information Technology Consulting
Programmer, March 1986 - November 1986
Cal-Tech Instruments Ltd., Okotoks, Alberta, Canada - Technology Start-up
Programmer, May 1985 - January 1986
Alberta Research Council, Edmonton, Alberta, Canada – Research Laboratory

Education:

Mar 2004:	ESIM Simulation Software, Nokia
Jan 2004:	CISSP Preparation, Bellevue Community College
May 1999:	Advanced C++ Programming, Fifth Era Knowledge Corp.
Apr 1995:	Artificial Intelligence, University of Northern BC
Dec 1994:	Functional Programming, University of Northern BC
Mar 1992:	Object Oriented Programming in Smalltalk V, The University of Calgary
Dec 1991:	Mobile Communications Engineering, The University of Calgary
Apr 1990:	Statistical Communications, The University of Calgary
Dec 1988:	Data Communications, The University of Calgary
Dec 1984:	B.Sc. in Electrical Engineering, The University of Alberta