

Michael Dennis Magatagan
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Security Clearance: TS/SCI

Career Objectives:

To provide advanced software engineering support to either government or commercial agencies.

Education:

Degree: Liberal Arts (Faculty of Science) - The University of Arizona
Major: Biology, Chemistry and Mathematics
Other: SCO XENIX & UNIX System V Administration Course

Recent Experience:

TYBRIN Group, Jacobs Technology Inc., (10/10 to Present) Senior Software Engineer

Lead software designer and developer of the Advanced Range Data System's Radio Frequency Network (ARFNET). This PC-based distributed application upgrades capabilities of the existing Edwards Air Force Base & White Sands Missile Range's (WSMR) ARDS airborne GPS tracking system and incorporates modernization elements such as distributed reference receivers for corrections dissemination, Real Time Kinematic (RTK) and interface to small-footprint receivers. Developed software interfaces and data translation algorithms between WSMR range assets such as the Common Range Integrated Instrumentation System – Rapid Prototype Initiative (CRIIS-RPI), Mobile Satellite Radar (MSR) using the Key Length Value (KLV) Common Message Format, ARDS and the Sub-Meter Accurate Range Tracking System (SMARTS).

GaN Corporation - Geeks and Nerds, (11/07 to 10/10) Principal Technologist

Senior Technologist providing experienced and knowledgeable technical expertise to support the Real Time Casualty Assessment (RTCA), Geometric Pairing, and Live-Virtual-Constructive (LVC) Integration Management. Supports OTC senior management in the development and implementation of Geometric Pairing principles supporting Army and cross-services training and testing systems. Software architect and development lead for the United States Army (USA) Operational Test Command (OTC) Common Data Link (CDL) software system as well as technical lead for the development of the White Sands Missile Range (WSMR) Simple Translation Acquisition and Routing System (STARS).

Electronic Warfare Associates - EWA (Formerly Comarco), (5/00 to 11/07) Senior Computer Software Analyst

Senior Engineer responsible for the Design, development and testing of the Common Data Link (CDL) Controller which allows cross-service platforms to pair geometrically using locally developed Target Selection, Weapon Flyout and Weapons Effect algorithms. The CDL application now consists of over 600,000 lines of code and provides all of the required DIS, TENA and HLA translation, Real-time Casualty Assessment (RTCA) and Terrain Database functions to pair Army, Navy and Air Force native instrumentation systems. The CDL package is currently TENA compliant to the JNTC (JRF/RS'05) Joint Object Model (JOM), HLA-compliant to the MATREX FOM 3.0, and supports DIS versions through version 6.0.

L3 Communications (Formerly Ilex Systems, Inc.), (2/98 to 5/00) Engineer V

Development Engineer on the team sporting the All Source Analysis System (ASAS) Reconfigurable Workstation (RWS) Y2K port from SunOS to Solaris 2.6. Developed, implemented and maintained automated transfer (communications) software for use between the RWS and other Army Communications systems. Enhanced and expanded the Mapping capability of the RWS. Developed course material and presented a developer seminar on "C and C++ Debugging Techniques".

Cabaco., (3/93 - 2/98) Computer Scientist.

Engineering lead for the US Army MFDC data collection and stimulation system development. Project Leader for the Digitized Army US Message Transfer Format (USMTF) and Variable Message Format (VMF) Message Stimulator (DAUVS) Tactical Appliqué Surrogate and Message Stimulator. Designed and delivered The Army Tactical Command and Control (ATCCS) Network Health System (NHS). Project Leader for the PC Test Item Stimulator Upper Level/Lower Level Protocol (PC-TIS ULP/LLP) Intel 80960 based Industry Standard Architecture (ISA) Universal Communications Module (UCM) rapid prototype.

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Languages (*in Alphabetical Order*):

Major Proficiency: C, C++, C#, COBOL, GNU, Perl, Unix Shell Script.
Minor Proficiency: 80x86 Assembler, 6502 Assembler, ADA, BASIC, Java, PASCAL, SPSS, UNIVAC 9400, Assembler, Z80 Assembler.

Operating Systems (*in Alphabetical Order*):

HP/UX, IBM OS/3&4, IBM VSE/DOS (CICS), Intel XENIX SYSTEM III, MS-DOS, NOS/VE (CDC), Linux Red Hat 8.0, Plexus UNIX SYSTEM V/M/1.7, Real-time Kernel (RTK), SCO Open Server, SCO Open Desktop, SCO UNIX SYSTEM V, SCO XENIX, Solaris, Sun, UNISYS UNIX System V, Windows 3.x, Windows 95, Windows Me, Windows NT, Windows 2000, Windows XP & Windows Vista.

Hardware (*in Alphabetical Order*):

Compact PCI, Contel Tiger-Link Minicomputer, Convergent Technologies Minicomputer, Cyber 170/730, Cyber 170/825, Cyber 175, Dec Systems Model 10, Hewlett Packard Apollo Series, IBM 4361, Intel 80x86, 80x60 and Pentium-based Microcomputer, Intel 310 Microcomputer, Plexus P/35 Minicomputer, Sperry 1100, Sperry 3760, Sperry 5000/80/90 Minicomputer, Sun SPARC.

Database Management Systems (*in Alphabetical Order*):

Clipper, Contel 'Just Ask', dBase II-IV, IQ, Informix, Lotus 123, Microsoft Access, Microsoft SQL Server, Multiplan, Open Access, Oracle, Q-Plan, RediWrite, SQL, Superbase.

Personal:

Birthdate June 25, 1960
Married with 3 Children
Excellent Health

References:

☒ *Available upon request.*