**Telecommunication/RF Engineering/IT professional** with a BS in Electronics Communications Engineering degree and over 18 years of progressive experience across broad range of **cellular wireless** and **IT technologies**. Proven ability to design, engineer, analyze and troubleshoot complex network systems. **Areas of expertise and interest include:**

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| * RF Engineering, Design and Optimization * Link Budget and RF Propagation * System Architecture * System Performance / Troubleshooting | * Distributed Antenna Systems * Information Technology/Networking * Virtualization and Cloud computing * Programming and Web Development |

# PROFESSIONAL EXPERIENCE

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| LCC - TECHMAHINDRA May 2016 – Present **Senior Engineer – RANS Group**  Hired as Senior Engineer of RANS Group for LTE RF Deployment projects with T-Mobile.  **Accomplishments and Contributions:**   * Created automation tools for updating RF Datasheets in T-Mobile RFDS Tool webpage; and for E911 Provisioning Audit Automation using MSExcel VBA macro, web-scraping with Selenium WebDriver, Python3.7 and virtualization with Vmware WorkStation to scrape data from various T-Mobile’s websites: LEMMING, SORT and RIOT -- for processing and validation. * Create Change Request Tasks in Pier for E911 IP Assignment CIQ requests for new nodes; trouble Tickets for Sites that failed E911 provisioning  |  | | --- | | **System Administrator** January 2015 - Present   * Worked with Windows Server 2008/2012, Linux Servers (Ubuntu, CentOS), Active Directory, DNS, DHCP, Firewall, Subnets, Cisco Network Routers and Switches * Used SCCM to remotely install and configure OS and software packages through distribution points, configuring PXE boot, Task Sequences etc. * Hands-on with Ansible for provisioning and configuration management of Linux servers. * Virtualization with vmware vSphere (ESXi Hypervisor and vCenter) , Distributed Switch, vmware VSAN, VM migration (vmotion), Vmware Workstation, vSphere AutoDeploy, PowerCLI, * Oracle VirtualBox, iSCSi SAN (Storage Area Network), Network Attached Storage (NAS), RAID, TFTP, Powershell, Remote Desktop, phpMyAdmin, and IIS * Hands-on experience with Amazon Web Services (AWS) and Microsoft Azure for setting up services like EC2, S3, Virtual Machines, App Services etc. and using Azure CLI with Bash for scripting / automation. Also used Python scripting with Vmware’s pyVmomi module. * Hands-on experience with Docker – creating containers and images. * Worked with Selenium Webdriver, SikuliX and Python 3.7 for web automation scripting and data scraping * Created website[s](http://orlando.technetrf.com/) [f](http://orlando.technetrf.com/)rom scratch with LAMP (Linux, Apache, MySQL and PHP), HTML/HTML5, CSS/CSS3, and JavaScript/JQuery * Attended Microsoft Virtual Academy, Linkedin Learning, and Pluralsight online training | |
| MYCOM NORTH AMERICA December 2006 - March 2016  **Senior RF Engineer**  Hired as full-time senior member of RF Engineering team to provide technical expertise and solutions to end-client. Involved in various UMTS, LTE, WiMax, DAS, Small Cells and Wi-Fi/WLAN projects.  **Accomplishments and Contributions:**   * Post-Launch LTE Optimization of 25+ AT&T Ericsson sites * Designed and Optimized Neutral Host Distributed Antennas Systems for various Crown Castle operated stadium, campus and corporate DAS venues (10+) with Commscope (ION-B and ION-U), TEKO, TE Connectivity and SOLiD equipment; Designed small cell solutions for AT&T using Alcatel-Lucent 9363 Metrocell product; Wi-Fi/WLAN design for Metrolink in their railroad yards with experience in configuration of Aruba access points and Cisco IOS Command Line Interface * Drive-test post-processing and data analysis using Actix, XCAP and WindCatcher * Team Lead for Nokia GSM BSC/BTS/T1 Configuration and Harvesting activities of 100+ sites; Lead RF Engineer in turn-key Alvarion WiMax design project with over 200+ sites involving search rings, site selection, and FCC/FAA filing; Microwave backhaul planning using Pathloss 4.0 and Google earth; Involved as contract staff for T-Mobile/Nokia UMTS RF design and GSM Monitoring projects with tasks involving Site Build Forms, RF Datasheet, Site Closeout Packages, Cable Sweep Tests, Spectrum Clearing/Interference Hunting, UMTS drive-test analysis, and RF System Performance ; PIM and Sweep Test Packages review and acceptance * Created tools/scripts/macros to improve the efficiency of the team in delivering routine yet complex tasks such as LTE parameter audits, Mapinfo/Mapbasic automation, database programming etc. * Subject Matter Expert and mentor for Automated Cell Planning using Radioplan WiNeS ACP tool and Atoll |
| INCODE TELECOM GROUP October 2005 - December 2006  **RF Engineer**  Hired as intermediate level member of the RF Engineering team to provide consultancy and contracting services to end-client and contribute to turn-key projects.  **Accomplishments and Contributions:**   * UMTS Pre-launch/Acceptance Optimization for Cingular Atlanta; CDMA2000-1xEVDO Pre-launch Optimization for Alltel markets in Appleton, WI and Jackson MS; Lead the Speech Quality / Mean Opinion Score (MOS) Testing for Nortel in Trinidad and Tobago * Developed Mapinfo/Mapbasic automation tools for Benchmarking of GSM and CDMA drive-test data for operator in Brazil. |
| SMART COMMUNICATIONS INC February 2001 - September 2005  **Senior Engineer**  Joined the network and operations team to maintain and optimize the Nokia GSM Cellular Network. Started as a junior engineer and progressively promoted to a senior engineer.  **Accomplishments/Contributions:**   * Optimized clusters with 200+ Nokia GSM sites and successfully improved the Key Performance Indicators (KPI); Installed, commissioned and maintained NOKIA INTRATALK, ULTRASITE, and METROSITE BTS Equipment; Designed and implemented MIKOM and ALGON repeater solutions * Addressed customer complaints * Developed scripts and automation programs to improve team efficiency and processes; Received recognition for innovation with SMS-based tool for querying and monitoring base station status and parameter settings * Involved as instructor in Internal Technical Training Programs |

# EDUCATION AND TECHNICAL PROFICIENCY

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| **Bachelor of Science in Electronics and Communications Engineering**  UNIVERSITY OF SOUTHEASTERN PHILIPPINES, Graduated: Year 2000  **Recognitions**  **8th place ECE Licensure Examination, November 2000**  Philippine Professional Regulation Commission |

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| **Technical Skills**  iBwave, Forsk Atoll, Planet EV, Pathloss 4.0, Google Earth, GPS, Actix Radioplan ACP (WiNeS), Actix, WindCatcher, Ericsson TEMS, Agilent NITRO (E6474A), Wireless Pro, OPAS32, Spectrum Analyzer (Anritsu Spectrum Master, Tektronix RSA306), Signal Generator, Power Meter, Oscilloscope, Microsoft Office (Excel, Word, PowerPoint, Access), Visio, MapInfo and MapBasic, ReflectionX, PuTTY, SecureCRT, Nokia OSS / MML, Ericsson OSS AMOS/MOSHELL, Microsoft Visual Studio, Visual Basic, C/C++/C#, Object-Oriented Programming (OOP), Selenium WebDriver, Oracle SQL\*Plus, SQL Server, Windows Server 2008/2012, Active Directory, Ubuntu, CentOS, RHEL, 802.1x/RADIUS, PDQ Deploy, VMWare vSphere, Oracle VirtualBox, Linux, Apache, MySQL, HTML/HTML5, CSS/CSS3, Javascript/JQuery, Ajax, AngularJS, PHP, Windows Powershell, TeamViewer, Cisco routers and switches, Cisco CLI, DHCP, ACL, EIGRP, OSPF, WireShark, HomePlug AV / Powerline AV, PoE, Arduino, Atmel AVR Microcontrollers and Raspberry PI   |  | | --- | | **Training**  iBwave Design Level 1 Certified; SOLiD Level 1 Engineer; EXFO Ethernet Fiber Optic Testing Bootcamp; BelAir Networks Mobile Broadband Deployment and Configuration Training (802.11b/g/n WiFi); Automatic Network Optimization using the Radioplan ACP Tool (WiNes platform); NOKIA GSM System Training Course; NOKIA Extended Planning Introduction; NOKIA BSS Parameters Training; NOKIA Radio Network Parameter Optimization; NOKIA Base Station Subsystem Training; NOKIA 2G Network Surveillance (using NetAct); NOKIA INTRATALK BTS Training; NOKIA METROSITE and ULTRASITE BTS Training; NOKIA GPRS Systems Training, NOKIA 3G Systems Overview (UMTS), CDMA-1xEVDO Optimization (inHouse Training, inCode);  Planning a Microsoft Cloud Solution; Learning Cloud Computing: Core Concepts; Learning Cloud Data Storage; AWS Machine Learning By Example; Linux Essentials Certification; Understanding Active Directory; MVA Implementing Big Data Analysis; Powershell; Python 3 Essentials Training; Advanced Python; C Programming for Embedded Applications; PHP with MySQL (Essential Training & Beyond the Basics); Object-Oriented Programming With PHP; JQuery Essentials Training; Javascript for Advance Developers; CSS Fundamentals; C# Fundamentals; Mastering Selenium Testing Tools; Scrum Agile Methodology; | |