Mohan Reddy Duggi

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Sr Director of Engineering

Strong technical leader with proven track record of creating, sustaining and scaling large multi-functional engineering teams over long periods of time, to deliver complex Solutions, by collaborating with internal cross functional teams and customers. I drive long term success by constantly preparing the teams for change, empowering them with openness and big-picture view, and closely aligning towards company's goals.

- Setup & lead Strong Development Organizations
- Drive Clear organizational Vision and Strategy
- Recruiting, Developing and Retaining best talent
- Promoting accountability and Ownership

- Agile and iterative development
- Embedded SW, Android FW/Apps, Protocols
- Problem solving – Always finding a way
- Connecting Dots

Professional Experience

Samsung Electronics America   Oct 2012 – Present
Sr Director of Engineering

Sr Director of Engineering, Mobile R&D   Berkeley Heights, New Jersey   Mar 2016 – Present
Head of Mobile Network Operators Lab R&D, overseeing development of US Operator specific Android Applications (VVM, Setup Wizard etc) and Solutions (WiFi Calling, eSIM, Business VoLTE, FOTA etc).

- Lead Development of US Operator requirements for all Samsung Smartphones, Tablets, Wearables (**GS10, Note9, GS9, Gear S4, Tab S4** etc)
- Championed **eSIM** adaptation on Smartphones and Wearables to address various emerging use cases (Consumer and Enterprise Hybrid Dual SIM, Cellular Data offloading etc)
- Lead US Operator IT integration for strategic initiatives like **eSIM** based On-Device Activation (ODA) for Smartphones and Wearables. Lead ODA client development with local and international dev teams.
- Championed unified cross-carrier Single-APK Solutions for WiFi Calling, VVM, FOTA etc.

Director of Engineering, Mobile R&D   Bridgewater, New Jersey   Oct 2012 – Feb 2016
Head of Samsung-Verizon Lab R&D, overseeing development and commercialization of Verizon, Sprint and Regional Operator specific requirements and application preloads.

- Yearly/Quarterly project/resource planning and execute development projects using agile methodologies.
- Technical Champion and execution lead for Samsung's strategic **Single SKU BYOD** initiative for massive supply chain savings to increase device residual value by ~20% (enable leasing and secondary market) – Drive Design/Architecture decisions to address US Operator requirements, lead Operator and 3rd party app vendor technical discussions/negotiations, help Samsung R&D in overall realization and delivery
- Incubate and develop US Operator centric solutions like **WiFi Calling**, Verizon Showcase application etc.

Samsung Telecommunications America   Mar 2001 – Sep 2012
Sr Engineering Manager

Sr Engineering Manager, Mobile R&D   Bridgewater, New Jersey   Jun 2011 – Sep 2012
Manage two development teams (**OMADM/FOTA** and **ePDG**) and an Interoperability Test team

- Incubation of **ePDG** (for hand-off between 4G and WiFi) project in collaboration with Verizon – PoC development, internal/external demos, Lab and Field trials
- Re-design of OMADM/FOTA client to address FOTA failures in the field. Re-implemented OMADM transport layer for connectivity fault-tolerance.
- Setup Interoperability Test team after handing over 4G LTE specific development work to Samsung Korea , by retaining key protocol expertise.

Sr Engineering Manager, Dallas Technology Lab   Richardson, Texas   Apr 2009 – May 2011

Development of world's first multi-mode CDMA/4G LTE Smartphone (Samsung AP/LTE chipset, VIA CDMA chipset).

- Spearheaded an advanced development project to build an inexpensive VIA CDMA chipset based Smartphone, which got transformed into a multimode CDMA/4G Smartphone project.
- Started with two members, setup a team of 10 Engineers -- Was the manager and Tech Lead for the team.
- Individual contributor for board bring-up, DPRAM & UART drivers, eHRPD API spec for VIA, multi-mode support in Android RIL/Telephony/Framework, multi-APN data path support, support Verizon's IPv6 & eUICC requirements, IPC between VIA CDMA and AP as well as between VIA CDMA and Samsung LTE modems.
- Handled analysis of Lab, IOT & field issues, ensuring Verizon acceptance and successful launch of the device.

Staff Engineer, Dallas Technology Lab   Richardson, Texas   Apr 2007 – Mar 2009

Advanced project development

- Collaborated with Mozilla to port Mozilla Browser to Samsung's LIMO platform, which became Fennec. Individual contribution to porting Mozilla Direct-FB backend.
- Tech lead for an in-house advanced Mobile OS development project named RichUI, which used SVG for widget rendering and UI layout/elements specified in XML.

Sr SW Engineer, Wireless Terminals Lab   Richardson, Texas   Apr 2004 – Mar 2007

Advanced project development and feature development for in-house Mobile OS

- Research, design and development of multi-hop P2P protocols & frameworks over WiFi and Bluetooth to enable applications like local music streaming, multi-player gaming. PoC development on Linux, Windows Mobile, and Samsung in-house Mobile OS. **12 patents granted by USPTO.**
- Collaborated with a startup (Sea dragon SW) to port to Samsung in-house Mobile OS and optimize their futuristic web optimized visualization technology that allows graphics and photos to be smoothly browsed, regardless of their size. Later this technology was acquired by Microsoft to power Silverlight and Bing Maps. For details: https://www.ted.com/talks/blaise_aguera_y_arcas_demos_photosynth

SW Engineer, Wireless Terminals Lab   Richardson, Texas   Mar 2001 – Mar 2004

Feature development for in-house Mobile OS (First Samsung in-house OS to support multi-mode CDMA/GSM/UMTS)

- 3rd party TCP/IP stack porting, framework feature development, SMS/EMS app development, device drivers
- Protocol development for PC tethering over USB, Telephony API layer development

Sr SW Engineer, Wipro Technologies   Bangalore, India   Feb 2000 – Mar 2001

Feature development and enhancements for GBIU (GB Interface Unit), GSE (GPRS Signaling Entity) for Lucent

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Education

Master of Engineering in Computer Science (1998 – 2000): *Indian Institute of Science, Bangalore, India*
Bachelor of Technology in Electronics and Communications (1994 – 1998): GPREC, Kurnool, AP, India