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**Professional Summary:**

- 20+ years of experience in the area mobile computing platform and product design and development
- 12+ years of experience leading and managing global engineering teams
- 10+ years' experience in leading battery, power and charging solution on multiple platform architectures
- 3+ years of technical management experience in Apple in driving research and technology development of next generation BMS solution (includes BMS Silicon, HW, FW, Algorithm, SW)
- Experience in development of device drivers and board support package for Windows CE/Mobile & Android OS
- Led cross functional teams on developing Battery, BMS & Charging research and roadmaps for consumer and enterprise platform and products
- Architected Battery SW solutions with goal of re-usable SW on multiple hardware platform architectures and Android operating system flavors.
- Extensive experience in Agile working model. Successfully built/leveraged tools to improve efficiency in project execution.

**Employment and Experience Overview**

***Battery Architect with Apple Inc, CA (June 2024 to Present)***

- Leading in defining the next generation hardware and software architecture for Vision pro, Audio and Accessory platforms

***Engineering Project Manager with Apple Inc, CA (May 2021 to Jun 2024)***

- Led the development of Battery Management System (BMS) solutions from concept to delivery, encompassing
  - Definition of system and battery requirements
  - Custom Silicon development
  - BMS architecture design (Hardware, Firmware & Algorithms)
  - Battery Management Unit (BMU) and Pack manufacturing
  - Validation of modules (Pack/BMU) and systems
  - Ensuring a seamless handover to New Product Introduction (NPI) teams

***Principal engineer (Senior Technical Engineering Manager) with Zebra Technologies (Zebra Technologies acquired Motorola solutions), NY (Oct 2014 to May 2021)***

- Battery, Charging & Power Platform SW System Lead for Zebra's enterprise Android mobile computing products, including tablets, wearables, and handheld mobile device
- Led the Battery Gauging and Power Architecture Steering Committee, defining the architecture and roadmap
- SW Solution to solve key customer issues – battery longevity, swelling and cold temperature operations
- Battery Swap solution and architecture development. (Warm and Hot Swap)
- Battery API development on android system for third party application, analytics, and mobile device management.
- Battery data analysis to solve customer issues, architecture decisions etc.,
- Develop SW and HW abstraction for the reuse of SW and HW design on multiple architectures
- Led a global team of engineers as both Product Owner and Lead/Architect, collaborating with marketing teams to define, prioritize, and develop new features, and decomposing requirements into actionable tasks
- Interface with Chipset vendor and third-party component vendors on enterprise requirements

***Technical Engineering Manager with Motorola Solutions, NY (June 2014 to Oct 2014)***

- Platform Core OS SW lead and accountable for delivering Windows CE and Windows Mobile software

***Technical Architect with Motorola Solutions, Bangalore (Dec 2004 to June 2014)***

- Platform SW Lead and responsible for delivering Windows CE and Windows Mobile Core OS software.
  - Board bring-up on platforms and Low-level SW development to HW verification.
  - Platform SW development (BSP & Device drivers), OS migration effort & flash updater utility development
  - Power management features: Cold/Warm reset, critical low power suspend mode & system wakeup sources
  - Triage and resolution of system stability issues & Lead JDM and internal Motorola teams

**Publications/Patents:**

<https://patents.justia.com/patent/20210234140> - Method and Apparatus for Streamlined Battery Swapping

<https://patents.justia.com/patent/20090037979> - Method and System for recovering authentication in a Network

<https://www.ijsr.org/paper/Design-and-Development-of-Haptics-Solutions-for-Touch-Sensitive-Mobile-Devices.html>

**Academic Profile:**

- CORE program from Harvard Business School (2020) (Business Analytics, Economics for manager and Accounts)
  - Master of Technology in Computer Networks and Engineering from Visveswaraya Technological University (2010)
  - Bachelor of Engineering in Computer Science from Visveswaraya Technological University (2003)
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