


SUDARSHANA KARKALA

Senior Engineering Manager | Leadership – Mobile / Telematics Apps

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PROFESSIONAL SUMMARY

Engineering leader and solution architect with **19+ years** of experience in delivering high-impact software solutions across mobile, IoT, EV, and telematics domains. Proven expertise in developing EV Charging Management Systems and Battery Management Systems. Known for driving end-to-end product development, leading high-performing Agile teams, and creating customer-centric innovations.

CORE COMPETENCIES

- EV & Energy Solutions: EV Charging Management Systems, Battery Management Systems, Solar Energy Solutions
- Technical Leadership: Native Mobile Development (iOS, Android), IoT/Telematics Apps, Generative AI Applications
- Team & Process Management: Agile & Scrum Practices, Cross-functional Collaboration, Hiring, and Performance Reviews
- Technical Expertise: Swift, SwiftUI, Core Data, BLE/Wi-Fi Protocols, Secure Software Development
- Architectural & Development Practices: MVC, MVVM, VIPER, CICD, Code Reviews

PROFESSIONAL EXPERIENCE

EV.Engineer

Solution Architect – EV Charging Management & Battery Management Systems

December, 2024 - Present (Startup)

- Leading the design and implementation of innovative solutions for EV Charging Management and Battery Management Systems.
- Collaborating with cross-functional teams to develop cutting-edge products that address the challenges of EV infrastructure.
- Establishing best practices for scalable, secure, and efficient software solutions in the EV domain.

Enphase Solar Energy Pvt. Ltd., Bangalore

Senior Engineering Manager (iOS, Android, Cloud).

July 2021 – December, 2024

- Managed a team of 30+ engineers to deliver impactful solar energy solutions, including the Installer Toolkit App (App Store Rating: 4.2).
- Spearheaded ITK TechSupport AI, leveraging Generative AI to enhance customer support.
- Oversaw project roadmaps, architectural designs, security reviews, and process optimisations across the product lifecycle.

Key Achievements:

- Enhanced app usability with features such as IQ Gateway connectivity, Provisioning, Functional Validation and workflow automation.
- Cultivated a high-performance engineering culture focused on ownership and quality.

McAfee Software Pvt. Ltd., Bangalore

Engineering Manager (iOS, Android)

October 2011 – July 2021

- Architected and led the development of McAfee Mobile Security for iOS from scratch (App Store Rating: 4.7).
- Delivered security features like VPN, device protection, jailbreak detection, and telematics functionalities.
- Operated as a Certified Scrum Product Owner (CSPO), managing backlog grooming, roadmap planning, and analytics tracking.

Key Achievements:

- Achieved over 3M app downloads with a customer-centric approach to feature delivery.
- Designed and implemented a telematics app to analyse vehicle driving patterns for safety and security.

eNovate Media Solutions Pvt. Ltd., Bangalore

Technical Lead (iOS)

December 2010 – August 2011

- Delivered multiple educational applications for Pearson, mentoring a team on UML design and iOS development.

Ness Technology Pvt. Ltd., Bangalore

Senior Software Engineer (iOS)

July 2009 – November 2010

- Developed CheckMyTrip Mobile Companion app for Amadeus, enhancing travel management functionality.

NMS Communication Pvt. Ltd., Bangalore

Senior Software Engineer (J2ME, Symbian OS).

June 2005 – July 2009

- Developed mobile applications (Multimedia Sub Systems), including media-sharing prototypes and ringback tone clients.

EDUCATION

- B.E. in Information Technology

National Institute of Technology Karnataka (**NITK**), Surathkal – June 2021 - May 2005

Distinction across all semesters (72.71%).

CERTIFICATIONS & AWARDS

- Certified Scrum Product Owner (CSPO) – Scrum Alliance
- **Generative AI Certification** – Google Cloud Skills Boost, AWS
- Recipient of McAfee, Ness Spotlight Awards for innovation and performance excellence

TECHNICAL SKILLS

- Languages & Tools: Swift, SwiftUI, Xcode, Firebase and Google Analytics, UML
- Architectures: VIPER, MVC, MVVM, UML, BLE Communication Protocols
- Cloud & Analytics: AWS, Power BI, AppsFlyer, CICD, Google Analytics

PERSONAL INFORMATION

- Languages: English, Kannada
- Interests: Conducting IoT and Telematics Engineering workshops at Colleges (CSR)
- 📍 F404, Rohan Iksha, Bhoganahalli, Bangalore, India
- References available upon request