

# Sandeep Singh R

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## Objective

Strategic and results-driven Project/Product Manager with over 10 years of experience in embedded systems, product lifecycle management, and cross-functional team leadership. Adept at executing complex technical projects, optimizing product roadmaps, and driving operational efficiency.

## Skills & Abilities

- Project & Product Management: Agile & Scrum, Stakeholder Management, Risk Mitigation, Strategic Planning
- Technical Proficiency: Embedded Systems Development, MATLAB, Python, C, Embedded C, Firmware Development
- Process Optimization: Workflow Automation, Quality Assurance, Technical Documentation, Design Reviews
- Cross-Functional Leadership: Team Building, Mentoring, Client Communication, Vendor Coordination
- Project Tools & Standards: JIRA, Bitbucket, Git, MISRA C, DO-178, PCB Design (KiCad, Altium)

## Professional Experience

### Project Manager

#### Klug Avalon Mechatronics Pvt Limited | June 2023 – Present

- - Led an 8-member engineering team to develop Safe Load Indicator systems, reducing crane downtime incidents by 40%.
- - Managed timelines and resources across 5+ major projects, achieving 100% on-time delivery.
- - Conducted stakeholder meetings, aligning project goals with business objectives and attaining a 95% client satisfaction rate.

### Assistant Manager R&D

#### MPA Pvt. Ltd | May 2022 – June 2023

- - Spearheaded the development of embedded solutions, cutting development cycles by 20%.
- - Managed cross-functional teams, driving collaboration between engineering and product teams to ensure 95% client satisfaction.

- - Delivered firmware solutions that increased device performance and efficiency by 25%.

### **Senior Embedded Design Engineer**

**STPL | March 2021 – May 2022**

- - Managed integration of hardware and software for embedded solutions, improving stability by 30%.
- - Led system testing and implemented quality assurance protocols that reduced defects by 40%.

### **Senior Software Developer**

**Nexsemi Systems Pvt Ltd | Oct 2018 – Nov 2019**

- - Delivered crucial software updates that improved product efficiency by 20%.
- - Enhanced collaboration by streamlining version control processes, reducing deployment errors by 25%.

### **Validation Engineer**

**Microchip Pvt Ltd | March 2019 – Sep 2019**

- Automated 80% of manual test cases using Jython, improving testing efficiency.
- Enhanced bug detection by 25% through improved test planning strategies.

### **MATLAB Developer**

**Microchip Pvt Ltd | Oct 2018 – March 2019**

- Developed MATLAB-based GUI solutions that improved data visualization efficiency by 35%.

### **Embedded Design Engineer**

**Monee and Company Pvt Ltd | Nov 2016 – Nov 2017**

- - Designed and tested embedded hardware solutions that enhanced system stability by 20%.

### **Research Associate**

**PESIT | Oct 2012 – Aug 2014**

- - Conducted research on acoustic systems, improving data accuracy by 95%.

### **Design Engineer – Embedded**

**Apsis Solutions | June 2011 – Oct 2012**

- - Developed efficient hardware solutions that improved system performance by 15%.

## Key Projects

### Safe Load Indicator System for Cranes

- - Reduced crane safety incidents by 40%.
- - Enhanced calibration processes, cutting setup time by 25%.

### Spectrometer Design and Development

- - Developed STM32 firmware, improving data acquisition accuracy by 30%.
- - Optimized testing methodologies, reducing hardware integration time by 20%.

### Automatic Flight Control System (AFCS)

- - Implemented FreeRTOS integration that improved system responsiveness by 15%.
- - Led hardware rig testing, reducing system failures by 25%.

## Education & Certifications

M.Tech (Signal Processing) | SJCIT, VTU | 2016

B.E (Electronics & Communication) | SSEC, VTU | 2011

Certified in 'Embedded Systems and Peripherals' by Microchip India Pvt. Ltd.

Completed online courses on Coursera in project management and embedded systems.

## Achievements & Extracurricular Activities

- Winner – Best Design in Embedded Design Contest (EFY)
- Published 5 National Conference Papers & 2 International Journals
- MATLAB Instructor – Udemy (Basic Course)
- NCC 'B' Certificate holder
- Conducted multiple workshops and training sessions for engineering students
- Passionate about adventure sports: rock climbing, rappelling, and trekking

## Additional Information

DOB: 4th April 1986

Passport: K2691395

PAN: DNLPS6372G

Location: Bengaluru, Karnataka, India (Currently in Pune, Maharashtra)