

MANISH CHANDRA

Pune, Maharashtra | +91-7568540244 | chandramanish900@gmail.com

PROFILE SUMMARY

Embedded Software Engineer with experience in medical device (MRI) systems, specializing in firmware development, device drivers, and RTOS-based applications. Proficient in C/C++, Embedded Linux, and ARM architecture with strong system-level debugging and real-time processing experience.

PROFESSIONAL EXPERIENCE

Embedded Software & Firmware Engineer – Wipro (Client: Philips MRI) (Jan 2025 – Present)

- Worked on MRI medical device systems focusing on firmware and device drivers
- Developed and debugged low-level C/C++ code for hardware interaction
- Contributed to RTOS-based modules ensuring real-time performance
- Built scan and configuration applications for MRI workflows
- Performed system-level debugging, log analysis, and root cause analysis

Security Researcher (Freelance) (Feb 2021 – Jan 2025)

- Performed application security testing and scripting using Python
- Strengthened system-level debugging and edge-case analysis skills

TECHNICAL SKILLS

Embedded: C, C++, Embedded Linux, RTOS, Device Drivers, Firmware

Systems: ARM Architecture, Multithreading, Memory Management

Tools: Linux, Git, GDB, Python

Domain: Medical Devices, Real-Time Systems

EDUCATION

B.Tech – Computer Science & Engineering, Bikaner Technical University (2018–2022)

PROJECT HIGHLIGHTS

MRI System Software Development:

- Developed device drivers and RTOS modules
- Worked on scan application and configuration tools
- Ensured performance and reliability in safety-critical systems

ADDITIONAL INFORMATION

- Strong interest in embedded systems, firmware, and low-level programming
- Experience with debugging complex system-level issues