

# MOHAN DEGALWADE

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## PROFESSIONAL SUMMARY

**High-Performance C++ Developer** with 4.5+ years of experience in designing robust, multi-threaded, and multi-core software solutions for the telecom domain. Deep expertise in **(OOP)**, Network Signaling protocols **(SIP/RTP/other)** & good understandings on Design Patterns. Proven track record of diagnosing complex runtime issues using **GDB** and **PCAP analysis**, optimizing system performance, and utilizing **Python** for automation. adept at working in Agile team environments to deliver scalable enterprise-grade applications.

## CORE COMPETENCIES

C++ (11/14/17), Linux, Multithreading, STL, OOP, Design Patterns, Socket Programming, Networking (TCP/UDP, SIP, RTP), System Programming, Data Structures & Algorithms, debugging (GDB, Wireshark), Performance Optimization, Python, Git/SVN, STL, Event Driven Frameworks.

## PROFESSIONAL EXPERIENCE

**Software Developer - C++ | Mitel Communications Pvt. Ltd. | Bengaluru, India | Jan 2021 - Present**

- Designed and implemented Linux based C++ modules for IP communication systems, enhancing reliability and scalability in production.
- Worked on SIP/VoIP signaling stacks, call control features, and socket-based network communication for enterprise IP phones.
- Debugged and optimized multithreaded applications using GDB, reducing system crashes and improving stability.
- Diagnosed network and SIP protocol issues using Wireshark, improving call setup performance and reducing customer-reported incidents by 30%.
- Collaborated with cross-functional teams (QA, DevOps, Product) to ensure high-quality, maintainable code through rigorous reviews and CI/CD practices.
- Acted as Subject Matter Expert (SME) for Softkey (BLF, Transfer, Speed Dial) modules and configuration services, driving product feature enhancements.
- Authored technical documentation and design notes for system modules, ensuring knowledge retention and smoother feature integration.

**Indian Institute of Science (IISc) | Bengaluru, India | Jun 2019 – Jul 2019**

- Research Intern – Developed C-based simulations for electro-optic modulators and worked on embedded system experiments.

## TECHNICAL PROJECTS

- **Voice Command Softkey** – Built speech-to-text + lightweight NLP for hands-free IP phone control (UX & accessibility enhancement) and showcased the working PoC in the SharkTank.
- **IP Phones Management Portal** – Designed secure CRUD APIs with PHP/MySQL/JS for vendor management and automation.
- **Gesture Controlled Robotic Car** – Arduino-based gesture recognition for real-time robotic control (embedded C, sensors).

## EDUCATION

National Institute of Technology Karnataka, Surathkal | B.Tech – E&C Eng. | CGPA: 7.2 | 2016 – 2020

Shri CBG PU Kardyal, Bidar | PUC – Science | 98% | 2014 – 2016

Shri CBG High School Kardyal, Bidar | SSLC | 97% | 2013 – 2014

## ACHIEVEMENTS & ACTIVITIES

- 3rd place – Mitel Hackathon; Innovation Day recognition; multiple Bravo awards for technical contributions, delivered Tech Talks.
- Participated in coding and innovation contests; active contributor on GeeksforGeeks and LeetCode platforms; enthusiastic about coding, creative problem-solving, drawing, and outdoor games such as cricket and volleyball, promoting balance and team spirit.
- **Executive Member** – NITK Beach Events (Incident Fest); **Coordinator** – NITK Kannada Vedike Team; **Committee Member** – Phoenix Sports Club, fostering leadership and teamwork through cultural and technical events.