

Rama Mutalikdesai

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Skills

Languages: C, C++, Java, SQL

Technologies & Tools: Data Structures and Algorithms, OS, OOPS, Multi threading, CORBA, Design patterns, GDB, G.709 & CMIS Standards, Device drivers, IOP, Perforce/GitHub

Work Experience

Ribbon Communications

Aug 2025 - Present

Software Engineering Sr. Technical Analyst

- **Delphi 800G line module support:-** worked on FPQ-2 card to provide support for it. FPQ-2 has delphi on line in 9408 platform. Both 400G and 800G ZR+ supports for long-haul transport. Also worked on **protection schemes** like IOP, SNMP(Y-protection), OLP. Involved represented the system design through documents to stakeholders.
- Ensure **Warm reset is NTA**: Restoring CFPGA registers to a safe space during upgrades/reboot. This involved holding latch registers properly.
- Mentored juniors in understanding the system architecture and domain specific detailing. **Conducted trainings** on projects such as BER statistics based on module by I2C read.
- Taken up **critical PRs** during release time. Proven ability to conceptualize and execute innovative solutions for complex challenges in embedded software. Consistently delivering impactful contributions, ensuring projects meet high standards of performance, reliability, and scalability by **reviewing peers code** and reading SRQs.
- **C++, MultiThreading, Design Patterns, I2C, MetaDx, Protection Schemes, CMIS, G.709, Device drivers**

Software Engineering Technical Analyst

Feb 2023 - July 2025

- **OLS chassis hemi bringup**:- Worked on route control processor for new chassis. involved aggressive work on bringing up all modules such as fan, power supply working for hemi.
- **Day 1 issue on Inventory show**:- debugged on legacy code to properly cleanup inventory info of all **IO cards/Transceivers** during swap out of cards.
- **MCS and OAEA08 card RCP development**:- I was tasked on developing RCP support for both cards. During this time I **refactored** the whole design of oa-module to make it modular. Refactoring helped to breaks complex OA cards systems into independent, reusable parts, making products more **flexible, scalable, and efficient to develop, maintain**.
- During my internship, I immersed myself in comprehensive domain training, mastering crucial programming languages like C and C++, along with Linux environments and Perforce commands, which laid a strong foundation for navigating embedded software engineering intricacies

Education

JSS Academy Of Technical Education(VTU)

Jun 2018 - May 2023

B.E. in Computer Science and Engineering

CGPA: 9.01/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks

Project Work

- **AI voice assistant in native language - Kannada(2023)** Developed a desktop software for voice assistant in kannada language. Implemented efficient app for regional people. Implemented using Python. **Top 6 project in open exhibition** during final year of BE.
- **Alternative-Routes in Road Networks (2022)** Applied Dijkstra's shortest path algorithm to find the route which takes the shortest time to travel from source to destination in a given road network with randomly generated traffic. Implemented methods to avoid collisions between vehicles by dynamically changing their speeds. Used C++ and OpenGL library for simulation. C++, OpenGL
- **Real Time Pizza App(2022)** It involved mainly working on backend side. [backend : Node.js, Express.js] [database : MongoDB] [frontend : HTML,CSS,Javascript]

Awards and Certificates

- **Data Structures and algorithm in C++** Top 6 Learners in the batch
- LeetCode and HackerRank - 200+ problems in difficulty ranging from easy to hard level. silver badge in problem solving and SQL
- Duke University Certified Programming Fundamental on Coursera