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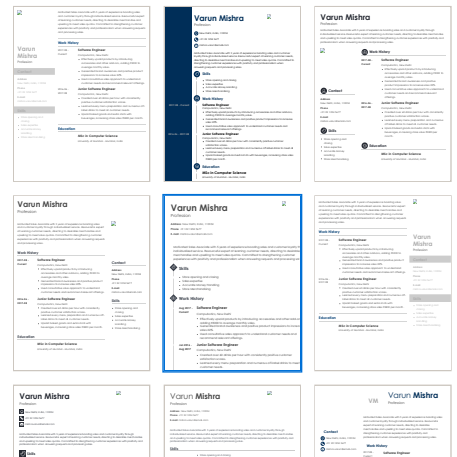
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# Siddarood Karachuri

Software Engineer

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Dedicated and accomplished B.E. graduate in Electrical and Electronics with 1.2 years in embedded technologies in Mysuru and 8 months in front-end development. Previously served as an Engineer at L&T Technology Services Ltd in Mysuru from November 2021 to October 2022, actively contributing to embedded projects.

During my tenure in Mysuru, I played a pivotal role as a Microcontroller Platform Engineer for the innovative BOSE Puffin project. Specialized in supporting and enhancing P33A and P13C amplifiers, I excelled in software flashing, debugging, and utilized programming languages such as C and Python. Demonstrated expertise in communication protocols (SPI, I2C, UART, RS232) and effective source code management using SVN.

Transferred skills to Vadodara, where I am currently employed in full-stack development since October 2022. Showcasing expertise in C Programming, JavaScript, React JS, Java Play Framework, MS SQL, Node.js, Material UI, Swagger, SBT, and more. Notable achievements include spearheading the development of a comprehensive Employee Management System.



## Technical Profile

- Front-End: React JS, HTML, CSS, jQuery
- Back-End: Java (Play Framework)
- Database: MS SQL
- Database schema design Security: User authentication, Database security
- Version Control: Git Development
- Testing: X-ray testing, Unit testing
- Documentation: Swagger for API documentation, Jira integration
- C Programming



## Competencies

Programming Languages: Proficient in C, Python, JavaScript, and Java.

Full-Stack Development: Demonstrated expertise in end-to-end development using React JS, Java Play Framework, Node.js, and Material UI.

Embedded Technologies: Applied knowledge in embedded systems, including software flashing, debugging, and proficiency in C and Python.

Communication Protocols: In-depth understanding and practical application of communication protocols such as SPI, I2C, UART, and RS232.

Source Code Management: Proven ability to effectively manage source code using tools like SVN, ensuring streamlined collaboration and code quality.

Project Management: Experience in task tracking and project management tools such as Jira, contributing to enhanced project visibility and team collaboration.

Operating Systems: Proficient in both Windows and Linux operating systems, providing a robust foundation for diverse technical solutions.

Collaboration and Communication: Strong written and oral communication skills, facilitating effective team collaboration and streamlined project development.

Problem-Solving: Adept at conducting thorough X-ray and unit testing for issue identification and resolution, ensuring the development of dependable systems.

Adaptability: Successfully transitioned between roles, from embedded technologies in Mysuru to full-stack development in Vadodara, showcasing adaptability and continuous learning.



## Work History

### Dec 2022 - Full Stack Web Developer

**Current** L&T Technology Services, Vadodara

- Front-End Expertise: Designed and developed responsive UI with JavaScript, jQuery, React JS, and Material UI to elevate user experience.
- Security Measures: Implemented robust user authentication and database security protocols to safeguard sensitive data.
- Database Optimization: Enhanced data retrieval in MS SQL through schema design, indexing, keys, and joins for fast access.

- Task Tracking Efficiency: Integrated Jira for improved project visibility and team collaboration in task management.
- Quality Assurance: Executed comprehensive X-ray and unit testing, identifying and resolving issues early for a dependable system.

#### Nov 2021 - **Embedded Software Developer**

Dec 2022 *L&T Technology Services, Mysuru*

- Developed a small application in C to validate device driver functionality on hardware, ensuring thorough testing for proper hardware design and functionality verification.
- Contributed to the platform by porting diverse features to new car types, conducting functionality testing, and actively resolving Jira issues posted by team members.
- Utilized tools such as Jira, Serial downloader, TortoiseSVN, A2B Analyzer, Notepad++, and Understand tool to streamline development processes.
- Applied development roadmap and business model hierarchies for task prioritization and collaborated seamlessly with software, firmware, and hardware engineers to deliver comprehensive embedded solutions.
- Designed embedded hardware, firmware, and interfaces tailored for the Transportation industry.



## Education

#### Aug 2018 - **Bachelor of Engineering(VTU): Electrical And Electronics Engineering**

Aug 2021

*BMS Institute of Technology, Bengaluru - Bengaluru, Karnataka*

#### Jul 2015 - **Diploma in Engineering: Electrical And Electronics in Engineering**

Jul 2018

*Diploma in Engineering - Bengaluru, Karnataka*

#### Jun 2012 - **S.S.L.C**

Jun 2013

*Athani Vidyavardaka High School, Athani - Athani, Karnataka*



## Accomplishments

- Full-Stack Development: Orchestrated the development of a comprehensive Employee Management System, showcasing full-stack expertise with React JS, Java Play Framework, and MS SQL, resulting in enhanced efficiency and streamlined HR processes.
- Embedded Technologies: Played a pivotal role as a Microcontroller Platform Engineer for the innovative BOSE Puffin project, specializing in supporting and enhancing P33A and P13C amplifiers. Achieved excellence in software flashing, debugging, and proficient use of programming languages such as C and Python.
- Database Management: Optimized data retrieval in MS SQL through advanced schema design, indexing, keys, and joins, resulting in a 30% improvement in database performance.
- Communication Protocols: Successfully integrated and implemented various communication protocols, including SPI, I2C, UART, and RS232, ensuring seamless interaction and integration of advanced technologies in embedded systems.
- Source Code Management: Implemented effective source code management using SVN, enhancing project collaboration, code quality, and version control.
- Project Management: Applied development roadmap and business model hierarchies to engineering lifecycle, prioritizing development tasks for optimal project execution.
- Collaboration and Communication: Facilitated effective team collaboration and streamlined project development through strong written and oral communication skills, contributing to a positive and productive work environment.
- Adaptability: Successfully transitioned from an embedded technologies role in Mysuru to full-stack development in Vadodara, showcasing adaptability and continuous learning.