
KARTIK KULKARNI

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Summary

Experienced Software Developer adept in bringing forth expertise in design, development and maintenance of software systems. Strategic Software Engineer skilled in application development, testing and optimization. Excels at coordinating ground-up planning, programming, and implementation for core modules. Maintains strong object-oriented and software architecture fundamentals.

Websites, Portfolios, Profiles

- <https://www.linkedin.com/in/kartik-g-kulkarni-64a075139/>
 - <https://github.com/Kartikk99>
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Experience

Senior Software Engineer Radisys Corporation	12/2021 to Current Bengaluru, India
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- Working as a 5G application developer at CU user plane unit.
- Enhancing the PDCP, SDAP, EGTP protocol layer for User plane data traffic.
- Skilled in developing software for multi-core and multi-threaded environments, optimizing performance and resource utilization.
- Well-versed in utilizing CI/CD methodologies to streamline and enhance the software development process.
- Proven ability to identify and rectify dynamic memory leaks by leveraging tools like KlockWorks and Valgrind.

Software Engineer Expleo India Ltd	09/2019 to 12/2021 Bengaluru, India
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- Contributed to the certification process of HVP VxWorks-7 RTOS, a symmetric multiprocessing Operating System, operating as a guest virtual machine on a bare-metal hypervisor.
 - Developed requirements adhering to DO-178C standards, ensuring robust and compliant design and development.
 - Created test scripts using C language to support test harnesses for libraries/packages, ensuring thorough testing of functionalities.
 - Conducted in-depth analysis of components like GOS_Apex and Vx_kernel_MM_alloc, evaluating both characteristic and non-characteristic requirements.
 - Spearheaded memory management services, including memory allocation from kernel proximity heap and creation of memory pools.
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Skills

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| <ul style="list-style-type: none">• C• C++• Linux Kernel | <ul style="list-style-type: none">• Git• Software Development Lifecycle |
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Education and Training

BE: Electronics and Communication ExpleoRadisysKLS Gogte Institute of Technology	07/2019 Belgaum, Karnataka
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- Winners of India Innovation Challenge Design Contest(IICDC) 2017.

- Finalists at E-yantra robotics competition, IIT-Bombay 2017.
- GPA: 8.47

Certifications

- Cambridge Business English Certificate., Cambridge University

Projects

- **Fire Fight Assist**

The product which helps a firefighter to overcome two important issues: human detection inside a rubble and path tracking for finding a shortest path to safety. The product was developed using two primary features: Doppler effect and path tracking using MMU. The project was funded by Texas Instruments India and DST(Dept of Science and Technology).

Tools used: BeagleBone Black, MSP432, Code Composer Studio(TI).

Concepts Learned: Doppler effect implementation for detecting human heartbeat through wall.