

Nikunj Devendrabhai Rana

Embedded Software Engineer

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🎓 B.E Electrical Eng.

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📍 Vector India Institute, Bangalore

Profile :

I am eager to utilize my innovative abilities and skills for the accomplishment of the projects. To secure a good position in a competitive and creative engineering environment that will benefit from my creative ideas, experience, and collegiate skills and will expectantly add value to organizational operations.

Professional Experience :

Aptiv, Associate Software Engineer

03/2023 - 12/2023

- Autocode generation of ADAS Level 2 and Level 2plus features using MATLAB E-coder.
- Unit testing using Reactis and SLDV for test case generation and performing MIL and SIL testing.
- Experience in MBD, verification, and validation. Good working knowledge of MATLAB and Simulink.
- Knowledge of configuration management tools Plastic, Jira, Confluence, and Plastic for agile methodology.
- Static analysis of auto-generated code in Polyspace.
- Participating in SCRUM ceremonies and sprint planning activities.
- Good knowledge of ARM architecture and CPU architecture.

Vector India, Intern

07/2022 - 02/2023

- Good Understanding in System Development Life Cycle, Testing Life Cycle.
- Knowledge of software development, debugging and troubleshooting.
- Good experience in microcontroller programming such as LED and LCD.
- Technical support for the student in their project.

Spacegraph, Associate Software Engineer

03/2022 - 07/2022

- Unit testing of software components using Reactis for testcase generation and MIL and SIL testing.
- I worked on coding, debugging, and error analysis.
- Good working knowledge of I2C, SPI, UART, and CAN protocols.

GETCO, Switch Board Operator

11/2019 - 08/2021

- Switch transmission and distribution circuits into and out of the grid system using switchboard operation.
- Measure power qualities flowing in the circuit & regulate voltage to compensate for system voltage changes.
- Install and maintain the network system, including transformers, protectors, high-tension switches, and associated electrical equipment.
- Performs scheduled maintenance and preventative repair on all electrical systems, equipment & machinery.
- Responsible for the planning, evaluation, and supervision of employees assigned to the operation, maintenance, and construction of electric distribution systems.

Skills :

C-Lanquage	C++	Embedded C	Protocols : UART, I2C, SPI		
ARM	CAN	MATLAB	Unit Testing	Model Advisory Guidelines	
Polyspace	Quality Check	Reactis	MIL	SIL	SLDV
Agile Frame work	Simulink	Plastic	Jira	Linux	