Deepak Neupane

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I am a motivated, proactive and hands-on software engineer with over 4 years of experience in software development for an automotive R & D company.

EXPERIENCE

Embedded Software Engineer, Halla Mechatronics [May 2020 – Ongoing]

- Collected requirements, developed new and maintained existing automation scripts used on software **validation** and **testing**.
- Designed and developed software applications to meet internal stakeholder requirements.
- Managed internal **DevOps** workflow and infrastructure for Continuous Integration and Continuous Delivery.
- Created new, updated, and maintained existing **test configurations** used on vehicle **software testing** and **validation** process for applications including but not limited to CANape, CANoe, CANalyzer and ECUTest.
- Developed new, update and maintain existing toolchain and automation scripts for automation of Software integration and configuration of **AUTOSAR** Basic Software modules using AUTOSAR toolchains.
- Created **test cases** for various test scenarios for integrated embedded software.
- Performed **bench level testing** of integrated software.
- Worked **on root cause analysis and corrective actions** for software defects.
- Experience in all phases of Software Development Life Cycle (**SDLC**) including Requirement Analysis, Design, Coding, Testing and Implementation in **Agile** (**Scrum**) Environment.
- Worked on creating, running and automation of **micro-diagnostics** test for Aurix family 32 bit Automotive grade microcontrollers.
- Worked on creating, running and automation of test cases involving **CAN, Ethernet**, and Automotive Diagnostics Protocol **UDS, XCP**.
- Worked on embedded software debugging and testing using hardware debuggers **iSystem, winIDEA**.
- Familiar with Industry standards such as **ISO26262, ASPICE** in automotive software development.
- **Trained team members** within the development team on software processes and use of internal tools.
- **Experience** with automotive cyber security methodologies.
- **Experience** with plant manufacturing support for automotive parts production process.

EDUCATION

Master's in Software Engineering and IT [Anticipated August 2024]
Oakland University, Auburn Hills, MI

Bachelor of Science in Computer Science [May 2020]
Saginaw Valley State University, University Center, MI

COMPUTER/ TECHNICAL SKILLS

Programming Languages	**Java**, **Python**, **Groovy**, C, Visual Basic (Primary), .NET**, C#,** C++ (Working Knowledge), **Matlab**
Embedded Software Tools	**iSystems, winIDEA**
Web Development	**React**, **JavaScript** (Working Knowledge)
Frameworks	**Django (Python), SprintBoot (JAVA)**
Operating Systems	**Windows (Primary)**, **Linux,** ROS, Raspberry Pi OS
Cloud Services	Microsoft **Azure**, **AWS**, **Server Virtualization** with **Proxmox**
Development and Test Automation Tools	**Eclipse, PyCharm, VisualStudio, POSTMAN, Git, Sourcetree, Github, ECU Test**
Automotive Industry Specific	CAN, Automotive Ethernet, AUTOSAR standards
CICD Tools	Jenkins, Docker (Familiar), Kubernetes (Familiar)

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