

HPC Software Engineer Intern [IDA: 00053]

Your tasks

Candidate will work on a next-generation Automotive High Performance Computing (HPC) project, supporting software validation and testing activities to ensure the quality, reliability, and performance of advanced in-vehicle software systems.

What you'll do

- + Support the setup, configuration, and maintenance of software test benches and test environments
- + Develop, execute, and maintain software test cases based on system and software requirements
- + Create and enhance test scripts to improve test coverage and efficiency
- + Support test automation development using industry-standard tools and frameworks
- + Perform test execution, analyze results, and assist in defect investigation and reporting
- + Support requirements-to-test traceability to ensure complete verification coverage
- + Collaborate with software developers, system engineers, and test engineers to ensure software quality and compliance
- + Assist in preparing test reports, validation documentation, and project deliverables

What you'll learn

- + End-to-end software validation and testing processes in real automotive projects
- + How automotive HPC systems are developed, integrated, and validated
- + Test automation techniques and best practices used in large-scale software projects
- + Requirements traceability and its role in software quality assurance
- + Exposure to automotive development standards and processes

Your profile

- + Diploma or undergraduate students in Computer Engineering, Electrical & Electronic Engineering, Computer Science, Software Engineering, or related fields
- + Interest in software testing, quality assurance, or automotive software development
- + Basic programming knowledge in Python, C/C++, or similar languages
- + Familiarity with software development and debugging concepts is an advantage
- + Good analytical, problem-solving, and communication skills
- + Able to work independently and collaboratively in a team environment

Our offer



Job ID
REF11560S

Field of work
Engineering

Location
Singapore

Legal Entity
AUMOVIO Singapore Pte. Ltd.

- Comfortable with at least one programming language such as Python, JavaScript (Node.js), or Java.
- Curious about AI and Large Language Models (LLMs), with basic awareness of how they are used in real-world applications.
- Interest in modern AI approaches, including simple agentic concepts like using tools, retrieving information, and solving tasks in small steps.
- Basic understanding of software and web concepts such as APIs and how applications communicate over the internet (for example, HTTP or REST).
- Eagerness to learn new technologies, ask questions, and improve through hands-on work.
- Good problem-solving attitude and the ability to work independently with guidance from mentors.

Good to Have (Not Mandatory)

- Exposure to Docker, cloud platforms, or Databricks through coursework, projects, or internships.
- Any familiarity with automation tools such as UiPath or Microsoft Power Automate.

Candidate Note

You do not need to meet every single point to apply.

If you enjoy building, learning, and solving problems, we encourage you to apply.

Ready to take your career to the next level? The future of mobility isn't just anyone's job. Make it yours! **Join AUMOVIO. Own What's Next.**

About us

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.