

Modem Hardware/Baseband Engineer in Architecture & Network Solutions (Telematics) | AUMOVIO Korea

Your tasks

NAD - Modem HardWare/Base-band Engineer in Architecture and Networking Solutions Korea (Telematics) | AUMOVIO Korea

Position Overview:

The Senior Hardware/Baseband Engineer to join our Telematics R&D team, responsible for developing NAD(Network Access Device)s supporting next-generation Telematics Control Units (TCUs) for global automotive OEMs. We deliver high-performance hardware platforms that integrate cellular (LTE/5G), GNSS, Wi-Fi, Ethernet, and in-vehicle network technologies, while ensuring full compliance with automotive standards.

This role combines core hardware development with baseband design, validation, and integration, ensuring optimal wireless performance in demanding automotive environments.

Responsibilities:

- Design, develop, and validate hardware and baseband solutions for next-generation Telematics Control Units (TCUs) and NAD platforms.
- Analyze and debug high-speed modem interface signal integrity issues, including PCIe and USB interfaces.
- Perform system-level integration, validation, and root-cause analysis across hardware, modem, and software domains.
- Optimize thermal performance and power consumption to meet automotive reliability and efficiency targets.
- Investigate and resolve memory-related issues, including stability, performance, and interoperability concerns.
- Troubleshoot and resolve EMC(Electromagnetic Compatibility)/EMI(Electromagnetic Interference) issues to ensure compliance with automotive and regulatory standards.
- Conduct hardware bring-up, debugging, and validation using laboratory measurement equipment such as oscilloscopes, spectrum analyzers, logic analyzers, network analyzers, and power analyzers.
- Collaborate with cross-functional teams, including RF(Radio Frequency), software, mechanical, manufacturing, and quality teams, to support product development and issue resolution.
- Support design verification, failure analysis, and field issue investigations throughout the product lifecycle.
- Contribute to continuous improvement of hardware design methodologies, validation processes, and engineering best practices.



Job ID
REF82442G

Location
Seongnam-si

Leadership level
Leading People

Legal Entity
AUMOVIO Korea Ltd.

Your profile

- Bachelor's or Master's degree in Electrical Engineering, Electronics Engineering, Computer Engineering, or a related field.
- Strong experience in hardware development and baseband system integration for wireless or automotive products.
- Hands-on experience analyzing and debugging high-speed interfaces such as PCIe and USB.
- Solid understanding of signal integrity, power integrity, and high-speed digital design principles.
- Experience optimizing thermal performance and power consumption in embedded or automotive systems.
- Proven experience analyzing and resolving memory-related issues involving DDR(Double Data Rate), NAND(NAND Flash Memory), eMMC(embedded MultiMediaCard)/UFS(Universal Flash Storage), or similar memory subsystems.
- Experience troubleshooting and resolving EMC/EMI issues in compliance with automotive standards.
- Proficiency in using measurement and debugging equipment, including oscilloscopes, spectrum analyzers, logic analyzers, and related tools.
- Familiarity with automotive communication and connectivity technologies such as LTE/5G, GNSS(Global Navigation Satellite System), Wi-Fi, Ethernet, CAN, or related interfaces.
- Strong analytical and problem-solving skills with the ability to perform root-cause analysis in complex system environments.
- Excellent communication and collaboration skills in a cross-functional global development environment.
- Experience with automotive development processes and standards is a plus.

Our offer

Application Introductions

- Please kindly submit your Resume as an Application Form.
- Application Form Download Link
: <https://c.smartrecruiters.com/sr-company-attachments-prod-aws-dc5/681b2d3485c3bb61ebb8f208/a6ababd5-0cb9-47d4-8b9a-809dfbeacad7?r=s3-eu-central-1>

Additional Information

- Application of this position will be valid until hiring completion.
- Notification of application results will be provided upon completion of the recruitment process.

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.