Modem Hardware/Radio Frequency Engineer in Architecture & Networking Solutions (Telematics) | AUMOVIO Korea

Your tasks

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The Senior Hardware/RF Engineer to join our Telematics R&D team, responsible for developing next-generation Telematics Control Units (TCUs) for global automotive OEMs. We deliver high-performance hardware platforms that integrate cellular (LTE/5G), GNSS(Global Navigation Satellite System), Wi-Fi, Ethernet, and in-vehicle network technologies, with strict adherence to automotive standards.

This role combines core hardware development with RF(Radio Frequency) design, validation, and integration, ensuring optimal wireless performance under challenging automotive environments.

Responsibilities:

- Design, develop, and validate automotive-grade hardware including schematics and multi-layer PCB(Printed Circuit Board) layouts.
- Integrate and evaluate RF components: cellular modems, GNSS modules, Wi-Fi/Bluetooth transceivers, antennas, and RF filters.
- Perform RF layout optimization, transmission line matching, and antenna placement analysis for optimal signal integrity and minimal interference.
- Conduct RF testing and troubleshooting using spectrum analyzers, network analyzers, and RF chambers.
- Support EMC(Electromagnetic Compatibility) and RF compliance testing (e.g., CISPR 25, ISO 11452) in collaboration with test and certification teams.
- Collaborate with software, system, validation, and mechanical engineers to ensure system-level integration and performance.
- Interface with component vendors for RF tuning, design reviews, and module certification support.
- Support hardware bring-up, root cause analysis, and failure resolution across development and validation phases.
- Create and maintain technical documentation: schematics, BOMs(Bills of Materials), validation reports, and design guides.

Your profile

- Bachelor's or Master's degree in Electrical Engineering, RF Engineering, or related discipline.
- 7+ years of experience in automotive or embedded hardware development, with at least 3 years focused on RF systems.
- Strong understanding of RF fundamentals: impedance matching, S-

Job ID
REF12624R

Location
Seongnam-si

Leadership level
Leading People

Legal Entity
AUMOVIO Korea Ltd.

parameters, return loss, and radiation patterns.
- Experience with tools such as Altium, OrCAD, ADS(Advanced Design System), CST(Computer Simulation Technology), or HFSS(High-Frequency Structure Simulator) for hardware and RF simulation/design.
- Hands-on experience with oscilloscopes, spectrum analyzers, VNA(Vector Network Analyzer), signal generators, and RF measurement tools.
- Familiarity with cellular (LTE/5G), GNSS, Wi-Fi, and Bluetooth modules and RF design practices.
- Knowledge of vehicle network protocols (CAN, LIN, Ethernet) and power management systems.

Our offer

Application Introductions

- Please kindly submit your Resume with 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 86.000 employees in more than 100 locations worldwide.