

MCU Expert

Your tasks

1. Define MCU localization strategy and roadmap for ECU products; analyze current foreign MCU usage and derive requirements for local MCU replacement (performance, memory, peripherals, safety, diagnostics, cost);
2. Evaluate potential MCUs from local suppliers against system, safety and OEM requirements; define and agree MCU technical requirements and deliverables with suppliers; coordinate supplier technical support, change notifications and product updates for the MCU.
3. Support ECU hardware design for MCU-related circuits (power supply, clock, reset, I/O protection, debug/flash, testability, EMC robustness); review and approve MCU schematic and PCB implementation; define and check surrounding components such as external memory, clock and power devices.
4. Define MCU-related software requirements for start-up, low-level drivers, diagnostics and safety mechanisms (watchdog, ECC, clock/voltage monitoring, reset strategy); work with basic software / platform teams to ensure correct configuration and integration; support analysis and debugging of MCU-related software issues.
5. Ensure MCU and its integration support ISO 26262 and project safety goals; provide inputs to safety concept, FMEA/FMEDA and safety mechanisms; define and support MCU-related validation (bench tests, HiL, temperature/voltage stress, EMC, reliability); prepare MCU design justification and test documentation for project and customer release.
6. Lead technical investigations for MCU-related field issues, production issues and project escalations; coordinate cross-functional root-cause analysis; define and follow up corrective and preventive actions for MCU design, application or process.



Job ID
REF6701I

Location
Jia Ding Qu

Leadership level
Leading Self

Legal Entity
AUMOVIO Automotive Systems Co., Ltd.

Your profile

1. Bachelor or master engineering degree, electrical engineering and microelectronics
2. At least 5 years of working experiences in microcontroller or digital IC in semiconductor industry

Our offer

上海市嘉定区汇荣路100号
100 Huirong Road, Jiading Industrial Zone, Shanghai, P.R.China 201815

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.