Gălbiniţă Sebastian

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EXPERIENCE

- **Aumovio** Iaşi
  Software Development Engineer - Automotive Embedded(Application Layer, AUTOSAR Classic)February 2022 - Present
  - **Developed** and owned embedded software for exterior mirror and window lifter control systems, implementing feature logic, state machines, diagnostics, and safety-related behavior from requirements analysis through ECU integration and release.
  - **Designed** parameterizable embedded libraries and AUTOSAR Software Component(SWCs), enabling reuse across multiple ECU specifications and vehicle platforms with different hardware constraints.
  - **Performed** system-level debugging and verification using **CANoe** and **winIDEA**, trace analysis, and unit testing to validate runtime behavior and resolve integration issues.
  - **Worked** closely with **systems requirements, testing and architect engineers** to refine requirements, implement new features, and support integration and release activities across multiple vehicle projects.
  - **Contributed** improvements to CI workflows supporting application-layer development, strengthening build automation and automated testing to shorten feedback cycles.

PROJECTS

- **Application-Layer Feature Development - Body Electronics** Implemented and maintained embedded software features for exterior mirror and window lifter systems, covering normal operation, edge cases, diagnostics, and safety-related behavior; adapted solutions to multiple vehicle configurations and evolving OEM requirements while ensuring functional correctness and system stability.
- **Automated Quality KPI & Metrics Platform** Designed and implemented an end-to-end automation framework to collect and visualize software quality indicators(code coverage, requirements coverage, memory usage, and complexity) improving visibility into software health and supporting data-driven engineering decisions.

ACHIEVEMENTS AND RESPONSIBILITIES

- Provided application layer development and integration support across more then 10+ projects, ensuring consistent feature behavior and system stability.
- Maintained project software quality targets by monitoring and supporting quality KPIs consistently achieving more than 90% target compliance.
- Supported system integration and release activities, resolving software behavior issues and improving reliability across vehicle configurations.
- Contributed to improving development workflows and software quality practices along side core development activities.

SKILLS

- **Embedded & Application Layer Development**:C, Embedded C, Python, Application Layer Software Development, Feature Logic Implementation, Safety-related Behavior Validation.
- **AUTOSAR & Software Arhitecture**: AUTOSAR Classic, ARXML configuration, Intern-component Communication, SWC Design.
- **Debugging**: CANoe, CANalyzer, winIDEA, TraceAnalysis, Integration Testing
- **Arhitecture & Software Design**: Reusable Software Components, Parameterizable Libraries
- **Development & CI/CD**: Git, Jira, LaTeX, Jenkins(CI pipelines, automation), Software Quality Metrics & Analysis.

EDUCATION

- **Faculty of Mathematics, University of "Alexandru Ioan Cuza"** Iaşi
  Mathematics and Informatics ; Score:9.37 *Sep. 2018 – Sep.2021*