

Lemmy (Bingze) Lin

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Summary — Embedded Software Engineer with 2+ years of experience in automotive and embedded systems. Delivered production-ready software used in Geely/Volvo and GM Corvette platforms. Skilled in AUTOSAR, diagnostics, and motion sensor development (ISO 16844-3). Recognized for closing 200+ Jira items and 70+ SVN commits across multi-site teams while consistently delivering zero customer-visible defects.

Skills

Embedded AUTOSAR Classic, NXP S32 (S32DS), PE Micro, MCAL, Bootloaders
Diagnostics CAN bus, UDS diagnostics, service handling, log/trace analysis
Languages C (Embedded), C++ , Python, Bash, Java, Dart

Tools Vehicle Spy, Vector CANoe, PCAN, SVN, Git, Jira, VMware
Workflow Agile/Scrum, sprint planning, requirements tracking
Build/CI GCC/Clang, CMake, automation scripts for flash/test

Experience

Stoneridge, Inc.

Embedded Software Engineer

May 2023 – Present

Novi, MI

- **TACM (Geely/Volvo):** Drove closure of 200+ Jira work items and 74 SVN commits across 36 branches by leading 100+ daily stand-ups with TCS and weekly syncs with China. Ensured milestones were met while protecting budgets and avoiding idle billing.
- **PLA (Aisin PLA / SADP):** Delivered AUTOSAR application integration, MCAL updates, and bootloader support for the S32K311 MCU. Contributed to calibration support and ensured production-quality integration across modules.
- **DUCA (Chevy Corvette):** Integrated DUCA motor control algorithm into PLA, improving shift time and overshoot performance with zero major integration errors. Provided on-site GM screening support and maintained DUCA troubleshooting documentation.
- Built automation scripts in Python/CAN for flashing, log parsing, and test execution, reducing validation cycle time and streamlining bench testing.
- Collaborated with hardware, systems, and software teams across the U.S., China, and India (TCS/KPIT) to align deliverables and resolve issues within one day.
- Maintained on-time milestone completion with zero customer-visible defects through transparent risk reporting and agile sprint coordination.

Fidelity Investments

Systems Engineering Intern

Jun 2022 – Aug 2022

Merrimack, NH

- Supported enterprise endpoint deployments, imaging, and VMware provisioning for thousands of systems.
- Authored quick-reference guides for IT workflows, improving onboarding and reducing ticket resolution time.

Projects

Cross-Platform Mobile App (Capstone)

- Built a Flutter/Dart app with Firebase backend, user authentication, and real-time sync. Designed MVVM architecture for maintainability.
- Integrated push notifications, offline caching, and responsive layouts for iOS/Android.

SENT-to-CAN Utility (Internal Tool)

- Developed a bridge decoding SENT (Single Edge Nibble Transmission) signals and broadcasting over CAN for bench validation and diagnostics.
- Enabled flexible mapping of SENT fields to new CAN IDs without disrupting existing frames.

Motion Sensor Prototype (Internal Concept)

- Drafted a requirements matrix and prototype software concept for tachograph motion sensor modules, exploring accurate speed/distance acquisition before the project was deprioritized.

Education

Michigan State University

Bachelor of Science in Computer Science, GPA: 3.8

May 2023

East Lansing, MI

- Relevant Coursework: Algorithms, Computer Architecture, OOD/OOP (C/C++), Networking, Databases.