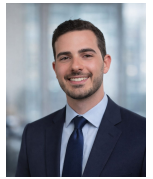


GAREN ARABKIRLIAN

Electronics Systems Engineer | EE Verification & Validation | Autonomous Vehicles



CONTACT

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EDUCATION

M.Eng. Electronics Systems Engineering

CNAM — Conservatoire National des Arts et Métiers
2017 – 2023 · Thesis graded 17/20
(highest grade, Parisian jury)

SKILLS

Software

Python · CAPL · C/C++ · MATLAB

Hardware

Vector VN5640 / VN1610 · RT3000
RTK GNSS/INS · ESP32 · PSOC6 ·
STM32 · PCB Design

Tools

Vector CANoe · Azure DevOps CI/CD ·
Robot Framework · ROS 2 · NVIDIA
Isaac Lab/Sim · Git

LANGUAGES

English (C1)	■■■■■
French (B2)	■■■■■
German (A2)	■■■■■
Armenian	■■■■■
Arabic	■■■■■

CORE COMPETENCIES

- › E/E Architecture Validation
- › HIL Testing & Fault Injection
- › CI/CD Test Automation
- › Functional Safety (ISO 26262)
- › Vehicle Networks (CAN · Ethernet · FlexRay)
- › Restbus Simulation
- › Vehicle Dynamics Analysis
- › Requirements Engineering

PERSONAL PROJECTS

- › Computer-vision bike-fit analysis — portable Linux HW, real-time tablet GUI
- › 6-DOF robotic arm — STM32, ROS 2, VLM models in NVIDIA Isaac Lab/Sim

INTERESTS

Former professional cyclist · Acoustic guitar · Boulderling

PROFESSIONAL PROFILE

Electronics Systems Engineer with 6+ years across autonomous-vehicle E/E validation, embedded systems, and IoT product development. Currently validating the Self-Driving System of the HOLON urban autonomous shuttle; proven record of delivering safety-critical test platforms behind TÜV and KBA road releases, and of architecting CI/CD-driven HIL automation used across an OEM testing department. Strong signal-processing background from predictive-maintenance R&D. Based in Munich.

PROFESSIONAL EXPERIENCE

EE Verification & Validation Engineer

[HOLON GmbH](#) | [Munich, Germany](#) | Jan 2026 – Present

- › Delivered the TÜV L0 road release of the PT2.1 autonomous shuttle — architected the vehicle-level steering/braking fault-injection platform, produced FuSa traceability from safety goals down to interfaces, and demonstrated it to TÜV on the test track.
- › Architected the Safety Driver Interference Concept (SDIC) for PT2 and the open-loop AD interface testing enabling the L4 KBA road release.
- › Built and technically lead the Azure DevOps CI/CD test infrastructure spanning component, cluster, and full-vehicle HIL benches — automated execution, reporting, and traceability.
- › Developed Python HIL toolchains and fully automated CANoe/CAPL restbus simulation and fault injection on Vector VN-series hardware.
- › Manage a supplier engineering team of 5 engineers and communicate AD actuator software performance with major automotive suppliers, including Continental/Aumovio, DANA/Renco, Nexteer, and Mobileye.

System Engineer

[Wintec Solutions](#) | [Germany](#) | Jul 2023 – Dec 2025

- › Architected and implemented the braking/steering fault-injection platform and L4 open-loop SDIC that carried the TÜV and KBA road releases of the HOLON PT1 vehicles.
- › Built the Azure DevOps CI/CD infrastructure adopted by the OEM testing department for Labcar, cluster, and component-level HILs.
- › Authored the functional safety Technical Safety Concept for a Volvo air-braking module — item definition, HARA, safety goals, and SSR/HSR traceability.
- › Delivered embedded software components (Krone KSC2N ECU) and the Robot Framework system-test infrastructure with QA coverage KPIs for Krone telematics.

Embedded Systems Engineer

[IOSS](#) | [Los Angeles, California, USA](#) | Jun 2020 – Jun 2023

- › Led R&D of a vibration-analysis predictive maintenance system from first prototype to pilot deployments on leading MENA manufacturing lines.
- › Owned end-to-end HW/SW prototyping: custom PCBs, BLE/Wi-Fi connectivity validation, and MATLAB signal-processing pipelines.
- › Managed Series A production planning, budget, and supplier chain (PCB, CNC, batteries); work earned the CNAM Master's thesis grade of 17/20 — the highest attainable — from the Parisian jury.

Earlier Experience

2018 – 2022

- › Co-founded Volt Lebanon, an education startup running electronics workshops with schools and youth organizations (2018–2022).
- › Automation technician at Narinco Micro — VFD/PLC programming and repair, PCB milling, industrial control panels (2019–2020).