Linumiz GmbH

Embedded Intelligence. Engineered for Scale.

![Linumiz — Design. Develop. Deliver. Everywhere.]

We are Linumiz — an embedded systems company focused on building secure, scalable hardware and software solutions. We operate at the intersection of embedded engineering, AI, and automotive-grade systems.

- Embedded Hardware & Software Development

- Automotive & Industrial Systems

- AI–Enabled Engineering Solutions

- Trusted Technology Partner for Semiconductor

  & OEM Ecososystems

Linumiz LLC
Delaware, USA

Linumiz GmbH
Adelebsen, Germany

India
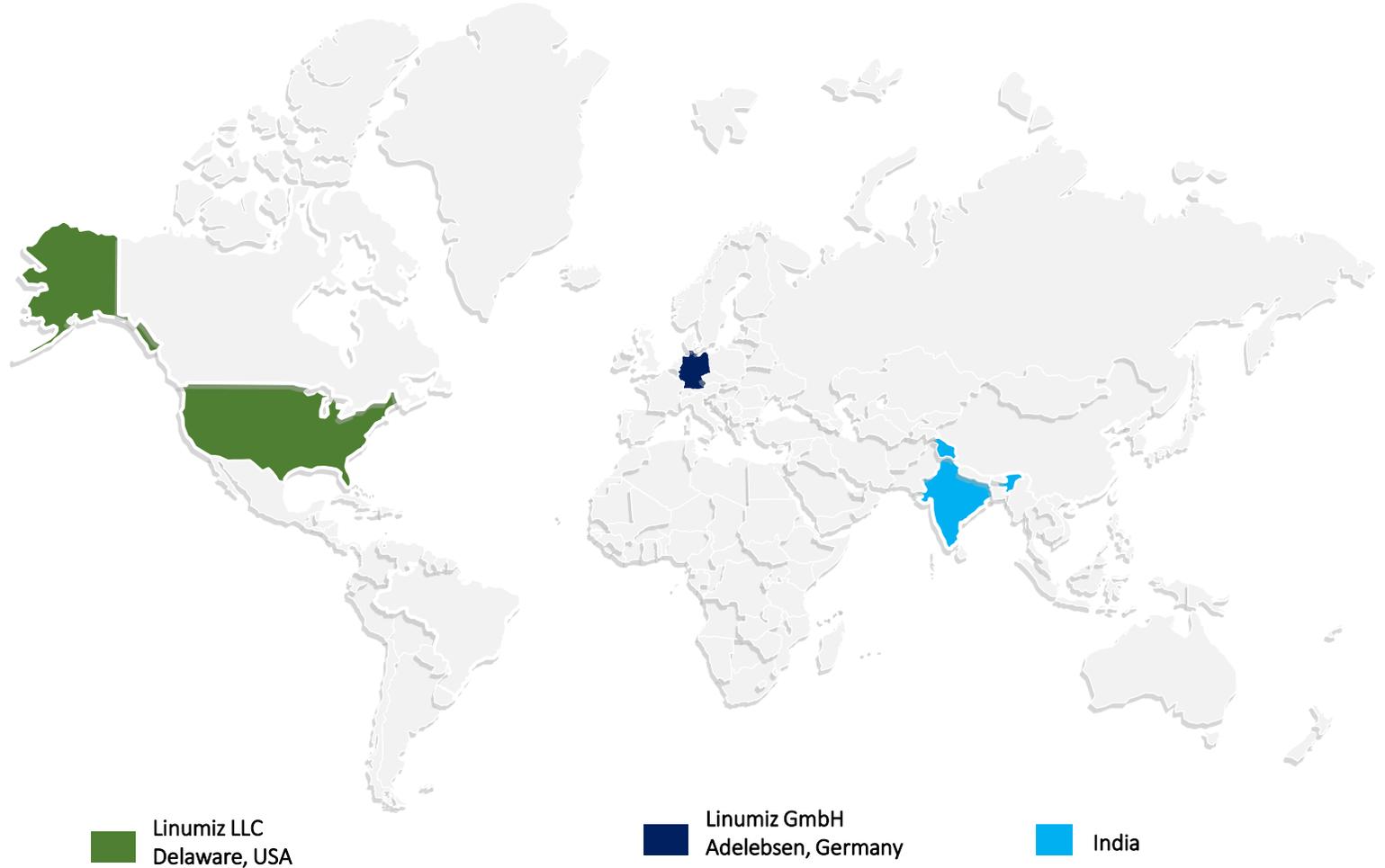
Full-Stack Embedded Engineering

Embedded Hardware

- Custom Board Design
- High-speed PCB Layout
- Signal Integrity & Power Optimization
- Industrial & Automotive-grade designs

Embedded Software

- BSP & Low-level drivers
- RTOS / Zephyr / Linux Integration
- Secure Firmware Development
- Functional Safety & Compliance Support

NuttX RTOS yocto PROJECT Zephyr®

Regulatory & Compliance

- CRA (Cyber Resilience Act) Consulting
- Security Architecture & Risk Assessment
- Approval & Market Certification Guidance

Cyber Resilience Act (CRA) Consulting Services

Helping You Achieve EU CRA Compliance with Confidence

- CRA Readiness Audits & Risk Assessments
- Compliance Strategy & Implementation Guidance
- Guidance Through Certification, Conformity & Market Approval Processes

Open Source in Automotive

Enabling Zephyr for Automotive with Infineon

- Collaboration with Infineon
- Bringing Zephyr RTOS & NuttX RTOS into Automotive Applications
- Focus on:
  - Automotive-grade reliability
  - Security & Safety alignment
  - Long-term maintainability
- Bridging open-source innovation with automotive compliance

Cyber Resilience Act (CRA) – From Risk to Readiness

- Product Security Architecture Design
- Documentation & Audit Preparation
- Vulnerability & Lifecycle Management Strategy
- Guidance through Certification & Market Approval Processes
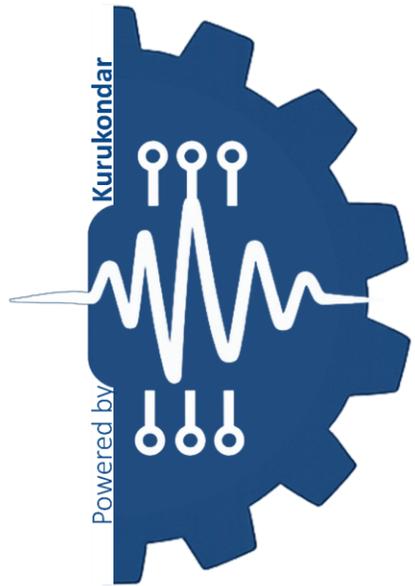
Security is no longer optional — it is regulatory.

Transforming Embedded DX – AI for Instant Technical Intelligence

- **Zero-Debt Architecture –** based on Zephyr external modules for clean updates and upstream compatibility

- **Golden Project Templates –** production-ready DevContainers with integrated CI/CD pipelines

- **AI Access to Documentation –** datasheets, HAL manuals, and forum knowledge directly inside the IDE using RAG + MCP

- **AI-Ready Workspaces –** automated hardware-specific rules to guide AI tools and eliminate hallucinations

Accelerating Embedded Innovation

- Faster Design Cycles
- Reduced Engineering Overhead
- Secure & Compliant Systems
- AI-Powered Knowledge Access

Linumiz connects Embedded Engineering, Automotive Innovation, Regulatory Compliance, and AI into one unified ecosystem

solutions@mail.linumiz.net