Savoir-faire LINUX®

Edge AI

We help you integrate AI into your embedded systems

Our Core Competencies

Tailored Edge AI Models
From data preparation to model specialization, we optimize neural networks for your embedded applications.

Open Source Ecosystem
Maintain your sovereignty with full control over your infrastructure and intellectual property, from model selection to production.

Application-Driven Solutions
Deploy AI for vision, audio, predictive maintenance, or real-time analytics, adapted to your industry challenges.

Edge MLOps & Model Reliability
Keep models accurate and resilient on-device with Edge MLOps, minimizing drift and cloud dependency.

Our Development Culture and Values

1. Agility and Risk Tolerance

2. Open Source Sustainability

3. Focus on Individuals and Social Responsibility

4. Strong expertise and versatility

Our Services Offering

From system design to real-world deployment, we provide comprehensive engineering services to help teams integrate AI into their solutions.

Model Optimization & Hardware Acceleration

We optimize model architectures (quantization, pruning) and compile them to efficiently harness Neural Processing Units (NPUs) and specialized hardware. This ensures minimal power consumption and maximum real-time throughput.

Computer Vision at the Edge

We provide full-stack computer vision solutions, from sensor data capture (RGB, LiDAR, thermal) to deployment. We design custom, high-performance models optimized for real-time inference using dedicated hardware accelerators (GPUs, NPUs).

Time-Series Analysis

We transform acoustic and sensor data (vibration, temperature, pressure) into real-time actionable insights. From predictive maintenance to private sound processing, our expertise ensures low-latency, secure AI analysis directly on your IoT devices.

MLOps for Resilient Edge Deployments

We implement advanced MLOps practices to manage the entire AI lifecycle on distributed devices. Automated model monitoring, robust Over-The-Air (OTA) updates, and model drift detection ensure performance and reliability with reduced cloud dependency.

Open Source Projects & Contributions

As a Linux Foundation (LF) member, Open Source is our engineering backbone. We leverage mature LF AI & Data projects, from model training with **PyTorch** to hardware acceleration using **ONNX** and **NNStreamer**. We also extend this technical expertise by contributing directly to the **Eclipse AIdge** project.

Team Enablement & Strategic Coaching

We help managers unlock the strategic value of Edge AI and implement best practices, while coaching engineers on hardware acceleration and model optimization for tangible, real-world impact.

**INNOVATION &
DIGITAL ECONOMY**

**HUMANS &
CONNECTED OBJECTS**

**COOPERATION &
SUSTAINABLE DEVELOPMENT**

LF ENERGY
GENERAL MEMBER

CYBERSECURITY FOR PRODUCT ENGINEERING

We empower innovative product engineers to create secure devices

Our Core Competencies

✛ Developing Secure-by-design products.

✛ Meeting cybersecurity certification requirements for constrained systems, such as IEC62443 and UL2900.

✛ Combining skills in electronics, industrial software development, automation to design secure, future-proof systems.

✛ Expanding and leveraging open source communities, technologies and tools.

Our Development Culture and Values

1 Agility and Risk Tolerance

2 Open Source Sustainability

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4 Strong expertise and versatility

Our Core Services

From threat modeling to secure design practices, we offer a full suite of services to help product engineering teams build secure and compliant embedded systems.

✛ Embedded Systems & Software

Meet the challenges of security, performance and resilience with our innovative team experienced in various sectors such as industrial systems, multimedia, telecommunications, energy, transports and consumer products.

✛ Embedded system software hardening

Security tailored to your needs: Whether you're in industrial control, multimedia, or any other sector, we tailor our embedded system hardening to your specific requirements. We minimize attack surfaces, control access, and strengthen authentication, all while ensuring your system remains performant and efficient.

✛ SBOM and CVE Management

Know your code, know your risks ! We provide complete transparency through industry-standard SBOMs (SPDX/CycloneDx), giving you a clear view of your embedded system's software components. Using our Open Source **VULNSCOUT.IO**, we identify and analyze potential vulnerabilities (CVEs) in your OS and applications, tailoring fixes and secure update mechanisms specifically for your system.

✛ Cybersecurity by design & Testing

Industrialize securely. Embrace automated testing and a tailored Continuous Integration (CI pipelines) for bespoke solutions that meet your unique security needs. Rigorous testing helps with state of the art security, while our CI approach automates updates for continuous protection.

✛ Contribution to Open Source Projects

As an active member of the Linux Foundation and LF Energy, we collaborate with many upstream projects to ensure that critical features evolve sustainably.

✛ Training & Coaching

We provide hands-on, focused and customized training. We are happy to share the best practices and be a coach enabling your developers.

INNOVATION &
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LF ENERGY
GENERAL MEMBER

CONNECTED DEVICES & PRODUCT ENGINEERING

We empower innovative product engineers to create secure cutting-edge software

Our Core Competencies

Combining skills in electronics, industrial development, computer science and automation to design mobile and embedded systems.

Developing embedded/IoT software to match unique product and hardware needs.

Leveraging open source communities, technologies and tools.

Managing complexity and risk in product development.

Our Development Culture and Values

1. Agility and Risk Tolerance

2. Open Source Sustainability

3. Focus on Individuals and Social Responsibility

4. Strong expertise and versatility

Our Core Services

We intervene at all levels: system architecture, software engineering, cybersecurity design, debugging, team training & coaching.

Embedded Systems & Software

Meet the challenges of performance, real time and security with our innovative team experienced in various sectors such as industrial systems, multimedia, telecommunications, energy, transport and consumer products.

Connected Devices & Applications

Develop ergonomic and innovative applications. Our team of experts will work with you on multifaceted projects ranging from embedded and connected objects, to handling and processing data flows, to complementary mobile, web or native applications.

Cybersecurity by design & Testing

Secure your devices' industrialization. Our Cybersecurity approach focuses on automated testing and a customized CI to provide tailored solutions to meet your specific security constraints. We conduct extensive tests to guarantee the highest level of security and we automate your devices updates with our CI solution. We use our open source solution VULNSCOUT.IO to manage CVEs.

Contribution to Open Source Projects

As an active member of the Linux Foundation and LF Energy, we collaborate with many upstream projects to ensure that critical features evolve sustainably.

- Linux kernel
- Buildroot
- Seapath
- GNU Jami
- FFmpeg
- U-Boot
- Yocto
- Cukinia

Training & Coaching

Whether your team is new to Linux, has questions about OSS, or is unsure about working with embedded systems, we provide hands-on, focused and customized training. We are happy to share the best practices and be a coach enabling your developers.

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Savoir-faire Linux in brief

Partners

Testimony

« Since we provide embedded hardware for multiple industries and verticals, it would be almost impossible for us to provide application level support to all of our customers. Savoir-faire Linux is a fantastic partner in this regard as they are well suited to handle a variety of projects across a multitude of platforms. They work seamlessly with the customer to bring their vision to life and bring the most out of our hardware in the process. They have consistently been great to work with, at every level of engagement and we recommend them highly . »

ROBERT MILLER
President - EmbeddedTS
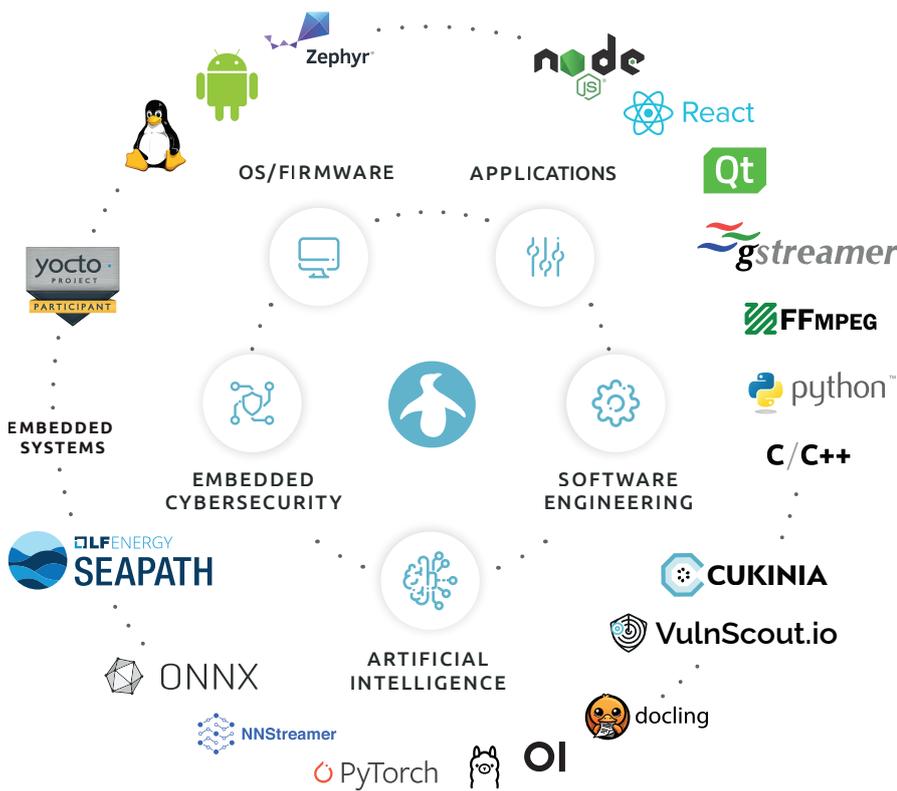
Cross-Industry Experience

Avionics and Aerospace

Defense and Cybersecurity

Energy

Electrical and Electronic Design

Rail Equipment

Agriculture and Agribusiness

Medical Devices and Hospital Logistics

Industrial Control and Monitoring

Multimedia and Entertainment

Telecommunications