



Pioneering Excellence in Mobility Engineering & Technology

Corporate Deck

Vietsol Company Overview

2021

Founded

Top 3 Development and Testing Vendor of the largest EV OEM in Southeast Asia

6

Countries Represented

Vietnam (Headquarter)
United States, Germany, China, Malaysia, Japan

200+

Employees Worldwide

5 PhDs
Internationally educated PhDs

The Only

Technical Partner in SEA of IBM, Siemens



Advancing smarter automotive and manufacturing systems through embedded engineering, system validation, and Edge AI expertise.

MISSION

& VISION

Dedication to global engineering standards, emphasizing the attainment of Outstanding Quality at an Appealing Cost.



Pioneering in our chosen Verticals

We build, validate, and deploy mobility and industrial systems - powered by Engineering, Automotive Products, and Edge AI Solutions.



Mobility / Automotive

Accelerating OEM and Tier-1 programs with automotive-grade delivery.

- Faster engineering cycles, validation-ready outputs
- Compliance-first quality (safety & security)



Electronics & Electrical

Building reliable embedded systems—from integration to production readiness.

- Embedded development and system integration
- Verification workflows and performance optimization



Smart Manufacturing

Deploying Industrial Edge AI to improve quality and productivity on the shopfloor.

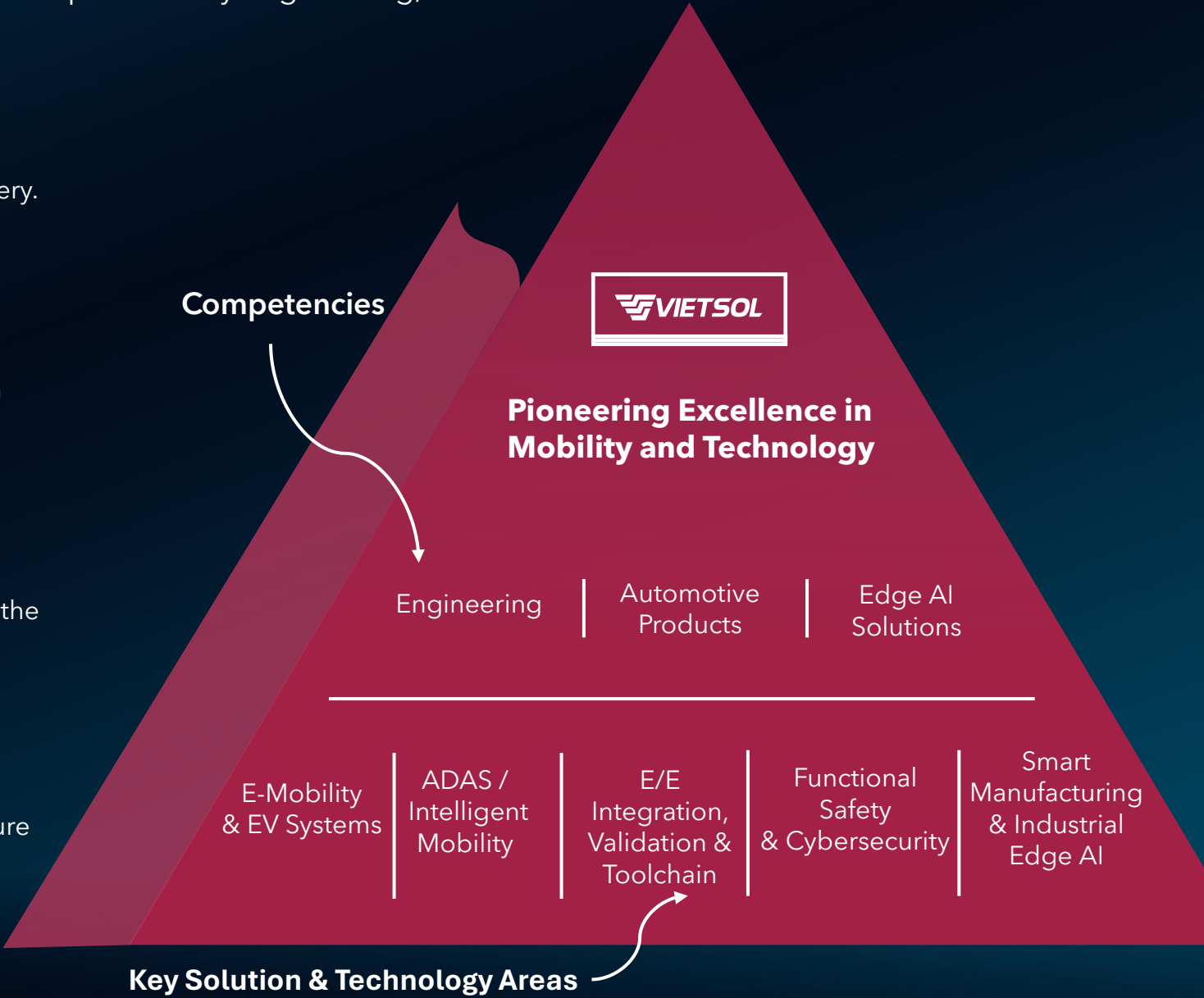
- Vision inspection and automation enablement
- Predictive insights to reduce downtime



Public Sector

Enabling smarter public services through scalable digital infrastructure platforms.

- Monitoring and decision support systems
- Security-by-design, interoperable deployments



World-class Leadership and Experts

Didier Chenneveau
Chairman – Strategic Growth & Operations

- 35+ years in high-tech supply chain and operations;
- Former VP/Executive at HP, LG, and McKinsey.

Nguyen Quoc Tuan, PhD
Founder and CEO

- 15+ years in Automotive R&D expert in AI and smart manufacturing.
- Former executive at Bosch, VinFast, FEV

David Duncan
CEO, Vietsol USA LLC

- 30+ years of global leadership in US market entry & brand building for various Automotive OEMs
- Former executive at BMW, MINI, Nissan, VinFast

Nghiem (Neil) Nguyen
Automotive CPO

- 12+ years in automotive electrical engineering, vehicle systems, and product development across global EV programs.
- Led cross-functional teams in vehicle commissioning, global field operations, and mission-critical issue resolution across multiple continents.

Son Le
CCO

- 20+ years in Sales & Commercial leadership for Tech and AI;
- Former executive at FPT, Samsung, and Vingroup.

Celine Dinh
CFO

- 20+ years in Finance and Strategic Transformation;
- Former leadership roles at Vingroup, VinFast, EY, and Caterpillar.

Luna Nguyen, MBA, FCCA
CGO

- 20+ years in business transformation, digital transformation, risk management & investment analysis.
- Former executive at EY, FPT Securities

Md Ridzuan Md Yusof
SEA Business Development Director

- 24+ years in automotive and e-mobility; technical evaluator for the Ministry of Higher Education
- Former EXCO of SAE International.

Nguyen Thanh Huong
CMO

- 15+ years in Marketing, GTM strategy, and Branding; deep expertise in business development and financial analysis.
- Former executive at CafeF, Nguoiquansat

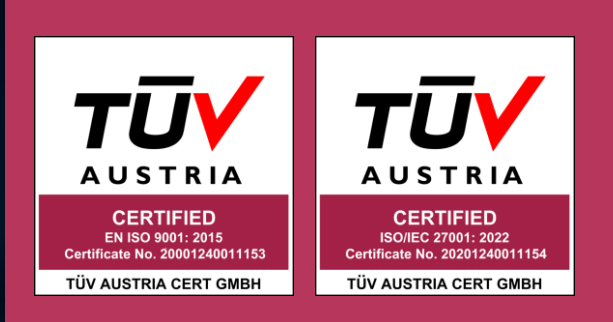
Our Global Footprint

With a growing international presence and cross-border delivery capability, **Vietsol JSC** supports customers locally and globally—from early discovery to long-term engineering partnership.

- Global delivery model across time zones
- Local engineers, global standards
- End-to-end project execution and governance
- Scalable teams to support rapid growth
- Strong partner ecosystem to extend capabilities
- Secure, compliant collaboration for enterprise clients

Our Certificates

Our top-notch expertise is proven by industry-leading certifications.



Global Network

Vietnam, HQ | United States · Malaysia · China · Germany · Japan

- Headquarters: Vietnam
- Legal Entity: USA (Vietsol USA LLC)
- Business & Development Team: Germany, China, Japan, Malaysia

Trusted Partnerships & Global Collaboration

Our Global Partners

Our global partners across automotive, manufacturing, and enterprise technology trust Vietsol as a strategic engineering and Edge AI partner. With deep expertise in MBSE, system integration, automotive software, and AI-driven solutions, Vietsol enables partners to build, deploy, and scale complex systems with speed, reliability, and performance.

University Collaboration

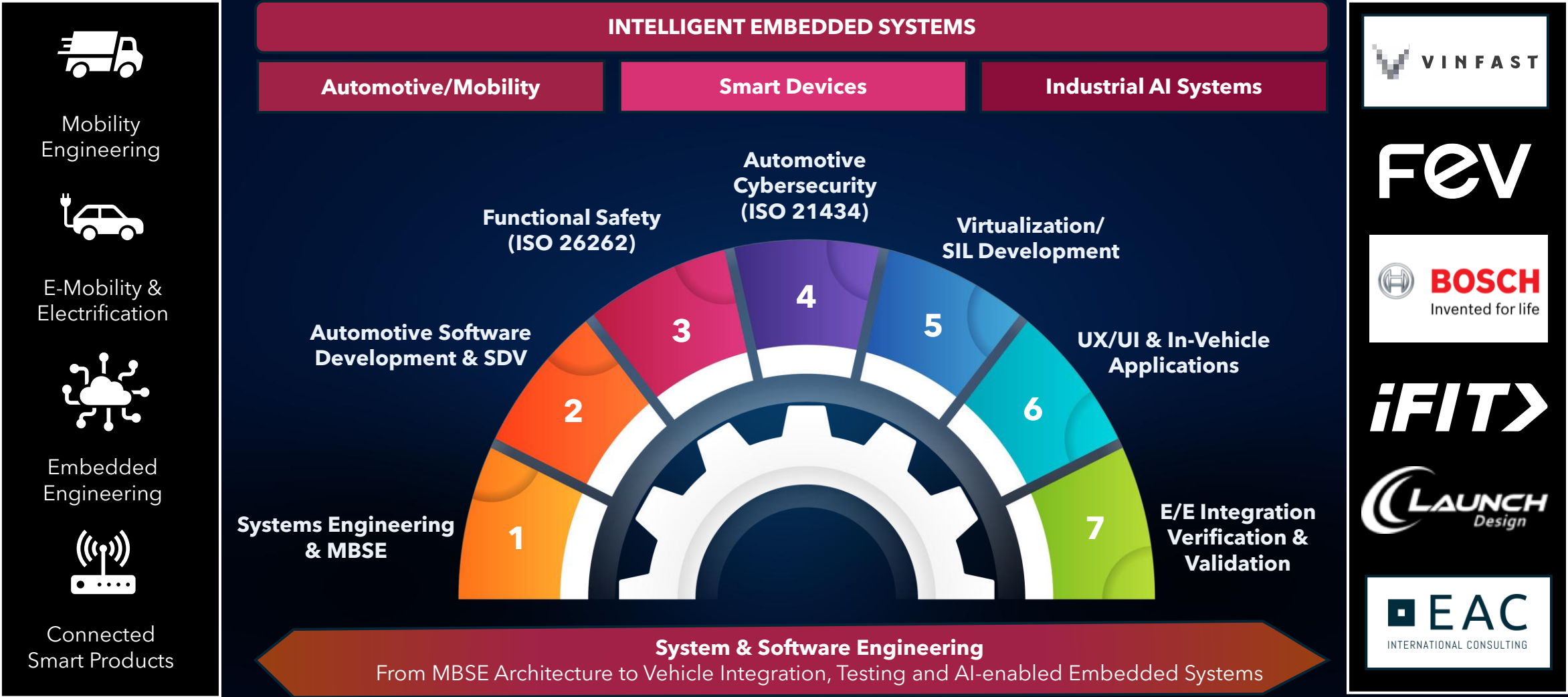
One of Vietsol’s key strength is our partnerships with top engineering universities, giving us access to a strong, high-quality talent pool to build and scale effective teams.



Engineering

From Mobility Engineering to Intelligent Embedded Systems.

Built on deep automotive engineering expertise, Vietsol extends its capabilities to intelligent embedded systems powering next-generation mobility, connected devices, and industrial AI solutions.

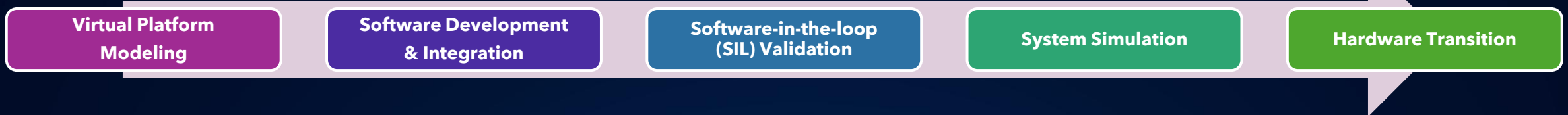


**Illustrative list of customers in each industry. Logos and trademarks are owned by the respective companies.*

Engineering – Vietsol Virtualization Platform

Enable scalable simulation environments for system development, faster integration testing, and efficient deployment across intelligent embedded systems before hardware is available

Top Development Stages



Virtual Platform Engineering Services

- Design and development of **RISC-V** virtual platforms
- Virtual platform development for **embedded processor** architectures
- Hardware abstraction for embedded systems
- **Software-in-the-Loop (SiL)** simulation environments
- System behavior modeling and simulation
- Integration **testing and validation** frameworks
- **Embedded software** debugging in virtual environments

Supporting Tools & Technologies

- QEMU / RISC-V simulation frameworks
- Virtual platform modeling tools
- Embedded software toolchains
- Python-based automation frameworks

Application Domains

Embedded Processor Platforms

- **RISC-V** architectures · **ARM-based systems**
- Custom embedded processors

System Development Domains

- **Automotive** embedded systems · Smart devices and **IoT** platforms · **Industrial automation** systems · AI-enabled **edge devices**

Virtual System Components

- CPU simulation · Peripheral models · Memory systems · Communication interfaces · Sensor and actuator simulation

Development Workflow



Engineering Strength Built Through Real Execution

From multidisciplinary talent and structured ways of working to real lab and testing environments.

Engineering Experiences

- Hands-on execution in complex product environments
- Ensures quality from design to integration and validation
- Delivers reliable, test-ready engineering outputs

Engineering Specialists

- Multidisciplinary teams with strong technical depth
- Structured processes and cross-functional collaboration
- High-quality testing, verification, and engineering support



Vietsol Engineering Lab and Testing Equipment Environment

Automotive Products

Transforming Vehicle Intelligence with Innovative Solutions.



Fleet Management System (FMS)

In-Cabin Behavior



- Driver Monitoring
- Occupant Monitoring
- Advanced Driver Distraction warning

Fleet-side Monitoring



- Provides operators with monitoring visibility, event review, logs, alerts, and operational oversight.

ADAS

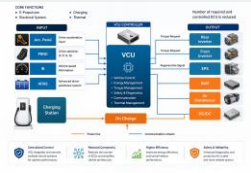


- Enhanced safety for many kinds of vehicles



Powertrain Systems

VCU Development



BMS (Low & high Voltage)



- Smart battery management

Inverter, DC-DC, OBC, PDU



- Integrated power conversion & distribution



E-Cockpit & Smart Cabin

HMI-Ecockpit



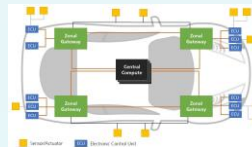
- Human-machine interface for modern vehicles

Emotion Detection



- Real-time in-cabin AI for mood & behavior tracking

Body Domain Controller & Zonal Control Module



Automotive Products – Vietsol Fleet Management Platform

Designed for real-world commercial fleet deployment across multiple vehicle types.

Key features:

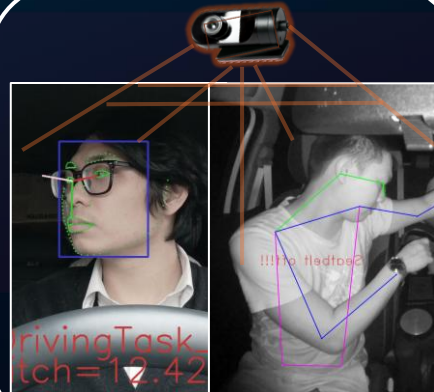
Real-time vehicle and trip visibility

Live Tracking

● Live



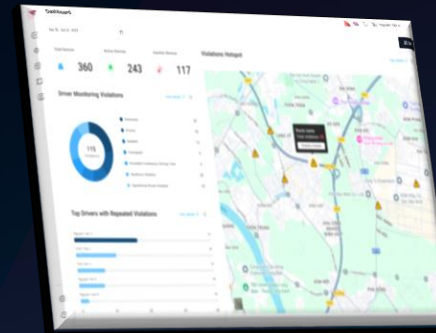
In-cabin AI monitoring for driver and occupants



Event-based video and image evidence capture



Fleet-side monitoring, alerts, and review

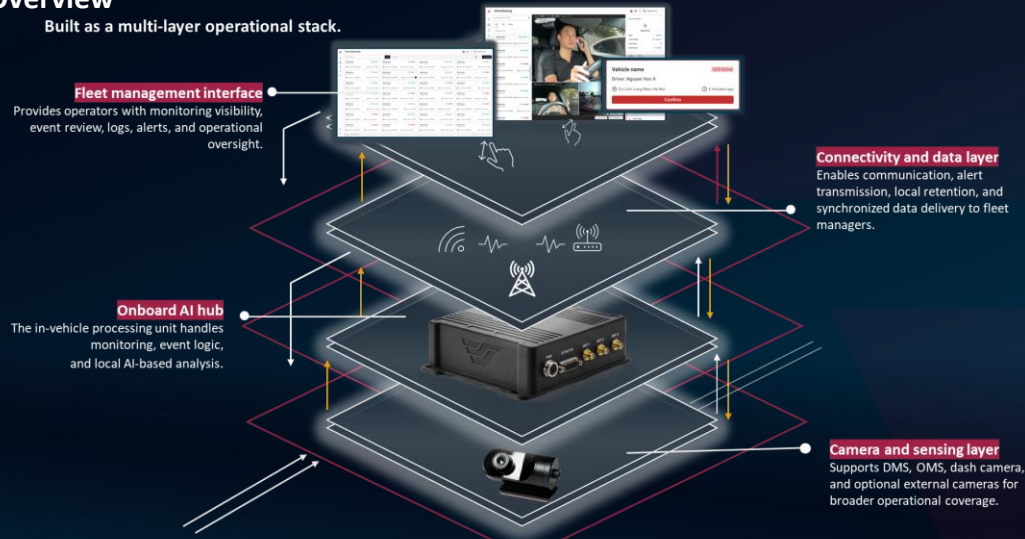


Expandable architecture for larger vehicle setups

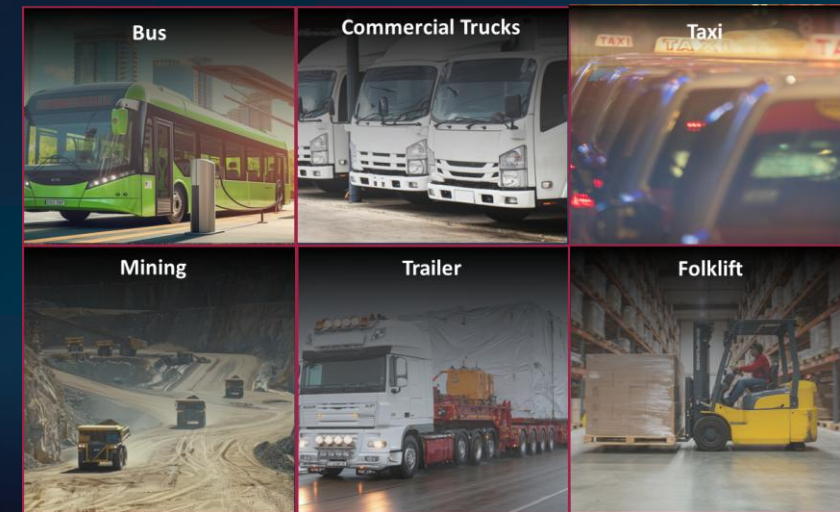


Product Overview

Built as a multi-layer operational stack.



Flexible Deployment Scenarios



Manufacturing Application

Real-time AI deployed directly on devices. Ultra-low latency, low power, cost-efficient. Build for production, not prototypes.



AI Quality Control

Local AI enables instant video processing directly on edge devices supporting the automation of Quality control process in manufacturing.

- Defect Detection solution
- Measurement solution
- Matching solution



Edge AI Surveillance Camera

Local AI enables instant video processing directly on edge devices supporting smart factory, building and city monitoring.

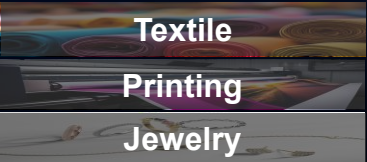
- Non-compliance behaviors (eg. No helmets, masks, not using hand-rail, using mobile phone, etc.)
- Pedestrian-forklift collision detection
- Fire detection
- Fall/fainting detection
- Restricted zone intrusion
- Other use-cases by demand



Automation and Robotics

Provide AI + robotics integrated solutions for smart delivery, smart factory warehousing and intra-logistics.

- Latent Mobile Robots (AGV / AMR family)
- Forklift AGVs
- Composite Robots (mobile base + robotic arm)
- Software system (Robot Swarm Brain; WMS/WCS/RCS)
- Automatic & Manual Charging Systems



Smart Factory

Smart Building

Smart City

Smart Warehousing

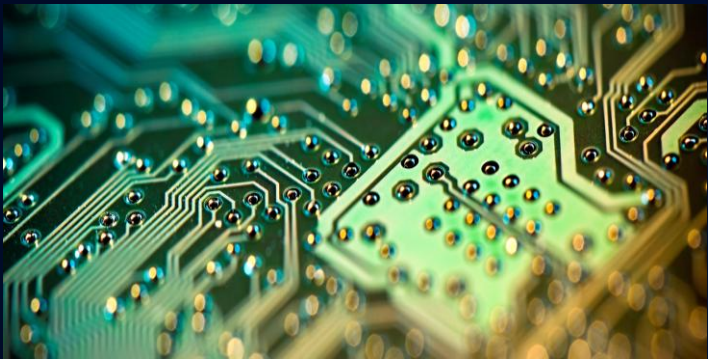
Smart Logistics



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Manufacturing Application - Vietsol AI Model Optimization Platform

Driving Smarter Edge Intelligence.



Technology Advantage

- An advanced software toolkit designed to optimize AI models and most efficiently leverage resource on edge devices
- A bridge between Python-based AI development (TensorFlow, ONNX, PyTorch) and efficient deployment on hardware by efficiently leveraging the intrinsic hardware advantages.
- Support **MCU, MPU, and NPU platforms**, including Cortex-M, AURIX TriCore, Cortex-A, RISC-V, Ethos-U, NXP Kiara, Novatek DLA, TI C7XXX, ...

Unique Architecture

Most tools offer one optimization layer, **VietSol integrates four layers in one engine.**

 Graph Optimization Automatic graph rewriting, operator fusion, memory layout optimization, constant folding, code transformation and rescheduling.	 Model Quantization Float32 - Int16/Int8 conversion with minimal accuracy loss and validation on actual hardware targets.	 Memory Optimization Fine grained operator memory allocation, internal/external memory exchanges, prefetching, and layer memory overlapping.	 Operator Optimization Use of SOTA computation algorithms, removing redundant framework code, advanced multi branches scheduling.
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Technology Differentiation

 30-400% in latency	 40-400% RAM for model /memory size	 No change in accuracy	 High Utilization (all layers on NPU)	 Minimum in CPU fallback	 30% Power consumption	 24 hours for deployment time (model → edge)
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Why Customer Choose Us

Strategic Engineering Partner for Edge AI & Intelligent Industry Solutions.

Embedded

CORE EXPERTISE

Deep Engineering Expertise

Embedded systems, Edge AI, MBSE, and software engineering for scalable, high-performance solutions.

Embedded

MBSE

Edge AI

PLATFORM

Advanced AI Optimization

High-speed inference on constrained edge hardware – fast, efficient, production-ready.

Inference

Edge HW

TRACK RECORD

Proven Industrial AI Solutions

Defect detection, predictive maintenance, smart inspection, and automation at scale.

Detection

Maintenance

Automation



ECOSYSTEM

Strong Global Partnership

Siemens DISW, IBM ELM, OBEO, CIL4Sys, and OEMs – delivering enterprise-scale engineering systems worldwide.

Siemens

IBM-ELM

OBEO

SIM4Sys

CROSS-INDUSTRY

Edge AI Success Across Many Sectors

Automotive, manufacturing, electronics, textile, smart infrastructure – aligned with ISO 26262, ISO 21434, AUTOSAR, and A-SPICE.

ISO 26262

AUTOSAR

ASPICE

Thank You



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Pioneering Excellence
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