

Ludovic Lucas

Senior Industrial IT & Software Architect

CONTACT

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Based 1000 Brussels, Belgium

AVAILABILITY

- Freelance consulting, worldwide
- Offshore and remote sites
- Long-term missions abroad
- Critical interventions on request

CORE EXPERTISE

- SCADA & supervision - Proficy iFIX (certified expert), Siemens
- Industrial networks & protocols, fieldbus to TCP/IP
- Virtualization of industrial infrastructures
- IT/OT convergence & security
- Validation & documentation (regulated)
- Commissioning & troubleshooting

IT INFRASTRUCTURE

- Windows Server, Active Directory domain controllers, group policies (GPO)
- Microsoft SQL Server, MySQL / MariaDB
- Network administration: switches, VLAN, routing, firewalls
- VMware virtualization

PROFILE

IT architect at the junction of IT and automation, 15+ years in regulated and critical environments (pharma, oil & gas). My expertise is on the IT side - software, protocols, infrastructure - with a solid understanding of PLCs and control systems. What I look for: missions that link the two from the IT side - applications that talk to the plant, protocol and communication development, integration between control systems and IT. I want complexity and a real challenge. Co-inventor of a patented AR system (BE, US, EP); clients include Pfizer, TotalEnergies, Baxter and Alten.

KEY ACHIEVEMENTS

Pfizer - enabled the virtualization of the SCADA infrastructure. Designed and developed an in-house tool converting all supervision addressing from Applicom fieldbus cards to TCP/IP, with full validation and documentation. Rolled out company-wide.

BattleKart - built an augmented-reality karting system from scratch. Game engine, on-board electronics and projection system. Co-inventor of patent BE 1022274 "Environment creation system", extended as US 10,967,279 and EP 4235628.

AI-driven trading environment developed with and for investment funds and family offices ($10M+). LLMs generate, test and select strategies with institutional-grade validation (walk-forward, Monte Carlo).

EXPERIENCE

Senior Industrial IT Consultant

Nayaro Industrial IT · 2016 - present · Freelance, clients incl. TotalEnergies, Baxter, Alten

- SCADA and supervision architecture, migration and troubleshooting (iFIX, Siemens)
- Custom industrial tools and communication interfaces, protocol-level development
- Virtualization and modernization of industrial infrastructures with minimal production impact
- Critical incident resolution; plant IT: Windows Server, Active Directory, GPO, SQL Server, network administration (switches, VLAN, firewalls)
- Validation, documentation and runbooks in regulated environments; IT due diligence

Founder & Group CEO

Nayaro Holding · 2015 - present

- Group of five companies: industrial IT, AI & Web3 for finance, real estate, gaming

Founder & Inventor

BattleKart · 2013 - 2019

- Concept, original software, electronics, projection; patents BE / US / EP

Industrial IT Specialist

Pfizer · 2010 - 2013

- SCADA (iFIX, Siemens), protocols, virtualization; built and validated the Applicom-to-TCP/IP tool used company-wide

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EDUCATION

Master's degree in IT
University of Mons (UMONS)

LANGUAGES

French

English

SOFTWARE & AI

- C#, WPF, .NET, C, Java, PHP, JavaScript, Python, SQL - any language on demand
- Custom industrial tools & interfaces
- Web, SaaS, mobile, browser extensions
- LLM integration, autonomous agents, backtesting

CERTIFICATIONS

- Proficy iFIX Expert - GE, 2010
- Advanced Lifeguard Certificate (BSSA) - Belgian Red Cross, 2015
- European First Aid Certificate (BEPS) - Belgian Red Cross, 2026
- Sea Lifeguard Certificate - Redfed, 2026
- Sailing Instructor - ADEPS, 2004
- IKO Kiteboarding Instructor, 2010

PATENTS

Environment creation system
Co-inventor
BE 1022274 · 2016
US 10,967,279 · 2021
EP 4235628 · 2024

INDUSTRIES

- Pharmaceutical (GMP, validated)
- Oil & gas
- Data centers & mission critical
- Finance, funds & family offices
- Entertainment & AR

TOOLS

- Proficy iFIX, Siemens WinCC / Simatic
- VMware, Windows Server, Active Directory
- Microsoft SQL Server, MySQL / MariaDB
- OPNsense, managed switches, VLAN
- Chrome extensions (MV3), Stripe
- Anthropic / OpenAI APIs

PRODUCTS BUILT END TO END

AI-driven automated trading environment

Founder & architect · since 2023 · proprietary

Closed-loop platform where LLMs write, repair and evolve strategies, keeping full lineage. Proprietary large-scale backtesting engine. Walk-forward, Monte Carlo, portfolio correlation, drawdown safeguards. Used by investment funds and family offices.

ChainTaxReport

Founder & developer · since 2025 · nayaro-corporation.com/chaintaxreport

Crypto tax reporting SaaS (FIFO). Multi-year loss carry-forward, PDF reports ready for filing, country-specific guidance. PHP 8.4, Stripe Tax, security audited.

Crapou

Founder & developer · since 2026 · crapou.com

Co-parenting platform: custody schedules, handovers, approvals, shared expenses with receipts. Freemium, Stripe, SMS alerts, iOS / Android / web.

Crypto backup verification tool

For fund managers · BTC, ETH, SOL, BNB, XRP

BIP39/BIP32 derivation entirely in the browser, the seed never reaches the server. Designed for MiCA compliance.

TYPICAL ENGAGEMENTS

IT/OT audit & modernization

State of the art, risks, virtualization plan, network segmentation, documentation that passes an audit.

SCADA migration & integration

Legacy supervision to modern, virtualized platforms; protocol bridges; interfaces to MES / ERP.

Custom industrial tooling

When the vendor tool does not exist: converters, gateways, diagnostic and reporting tools built on site.

Critical incident resolution

Production down, nobody knows why: root-cause analysis and fix, then the documentation so it does not happen again.

GROUP COMPANIES

Nayaro Industrial IT - on-site industrial IT expertise · **Nayaro Asset Management** - AI & Web3 for financial clients · **Nayaro Real Estate** - licensed general contractor · **Nayaro Vegas 21** - licensed gaming venue · **Nayaro Premium** - VIP services.