

CONTACTS

- +33628762946
- ahmad.harkouss@volvo.com ahmad.harkous@epita.fr
- o https://ahmadharkous.com
- Lyon

TRAINING / COURSES

Cloud, Network and **Cybersecurity:**

- -Cybersecurity of Industrial Systems
- -Pen Testing
- -Industrial local networks

(OPNsense)

- -System and network administration
- -DevSecOps, Cloud security
- Information Systems Security / DB Administration
- -laaS, infrastructure as a service (Azure, AWS)
- -Crypto and BlockChain

Industrial Engineering:

- -Lean Management
- -Supply Chain Management
- -Simultaneous Localization and

Mapping (NVIDIA Isaac ROS)

- -IOT objects conception
- -Advanced Digital Manufacturing
- -Modeling/simulation of industrial Twin Systems
- -ERP information systems, micro services

Data Science

- -Deep and machine Learning, MLOps
- -Big Data Analytics with spark and scala, DataViz
- Combinatorial Problem Solving
- Distributed Algorithms

AHMAD HARKOUSS

FINAL-YEAR COMPUTER ENGINEERING STUDENT @ EPITA | IOT & EDGE INTERN @ VOLVO GROUP | AVAILABLE AUG 2025

EXPERIENCE

Volvo Group - Digital & IT

Renault Trucks Factory, 69200 Vénissieux, FR

IOT & Edge Computing Engineering Intern

02/2025 - 08/2025

- · Worked in an international, cross-functional team across France, Poland, Sweden, and India, using Agile methodologies to contribute to Volvo's global digitalization strategy.
- Led technical meetings with Microsoft support team during the exploration phase of **Azure IoT Operations**, gathering insights and validating architectural design choices for industrial edge scenarios for volvo.
- · Modernized an existing industrial ThingWorx application by designing and deploying a cloud-native edge computing solution using Kubernetes and Dapr, enabling secure and scalable data processing at the edge. The new solution adopts a microservices architecture for cycle-based tension prediction, with services that publish and subscribe to MQTT messages for real-time communication.
- Engineered & deployed hybrid cloud connectivity between on-premise factory systems (OPC-UA Servers, Factory-installed PCS) and the cloud to support secure remote monitoring and control using azure arc & iot operations.
- Designed and implemented data flows from IOT field data to Azure Event Hub for real-time industrial telemetry ingestion.
- · Automated application deployment using Helm charts, GitOps Flux, and CI/CD pipelines, ensuring consistent updates across on-prem distributed edge clusters.

ABGi France, part of Visiativ

52 Quai Rambaud, 69002 Lyon

Full Stack Developer

09/2023 - 01/2024

- Designed and built a full-stack Azure Cloud solution for ABGi to help clients access French R&D tax credits (CIR, CII). - Developed the backend using Java Quarkus and the frontend with Angular & TypeScript.
- Collaborated with an international team, including developers based in Serbia.

EDUCATION

EPITA: Ecole d'Ingénieurs en Informatique

Lyon, FR

Dubai, UAE

Master of Computer Science Engineering In Industry 5.0

01/2020 - 12/2025

University of Dubai

Academic Exchange

01/2022 - 06/2022



FRENCH ENGLISH Native ••••

Proficient (Toeic 875)

ARABIC Native •••• **SPANISH** Beginner level