

# Hippolyte Girard

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Future graduate in Telecommunications Engineering from **INSA Lyon (France)**, passionate about **Innovation**, **Mechatronics** and **IoT**, seeking a **full-time engineering position** starting in **September 2026** to build and scale solutions in cutting-edge technological fields.

## PROFESSIONAL EXPERIENCE

### **Amplified Industries: Full Stack & DevOps**, Boston, MA, USA *Feb. 2026 – Present*

- IoT Product Development: Building "zero-to-one" features for an Oil & Gas IoT platform, connecting field assets to cloud-based monitoring systems.
- Cloud Data Pipeline: Engineered a scalable backend on AWS to ingest high-volume telemetry from Modbus-enabled field assets, enabling real-time algorithmic processing and the delivery of actionable performance analytics to clients.
- Product Velocity & Validation: Streamlining the development lifecycle using AI-augmented workflows to accelerate feature shipping; leading pilot deployments based on direct customer feedback.

### **Milo: Founder & CTO**, Lyon, France *Sept. 2025 – Present*

- Product Vision: Founded a startup building AI-powered audio story boxes for children; secured initial funding and incubation at I-FACTORY (Lyon, France).
- Cloud Architecture: Engineered a full AWS infrastructure managing APIs, servers, S3, and RDS; built a generative pipeline using Mistral (LLMs) and ElevenLabs (TTS) to generate customized stories on-the-fly.
- Hardware & Firmware: Designed 3D models and iterative first prototypes (ESP32); conducted initial testing campaigns with customers to adapt the product based on real-world feedback.

### **HyLight: Embedded Systems Engineer**, Paris, France *April – August 2025*

- Embedded Development for Drone: Programmed ESP32, STM32, and Raspberry Pi for sensor integration on hydrogen-powered drones.
- Hardware Design: 3D modeling and prototyping of test benches for power electronics and high-end sensor validation.
- Data Acquisition: Developed real-time measurement tools using Python and Dewetron DAQ systems for system performance mapping.
- Client Success: Bridged engineering outcomes with business value during technical demonstrations for industrial partners.

## EDUCATION

### **INSA Lyon, Telecommunications Engineering Degree, France** *2021 – 2026*

*Telecommunications Department (3 years) | Preparatory Classes: Adv. Math, Physics, Engineering (2 years)*

### **City University of Hong Kong** *2024*

*Academic Exchange*

- Advanced Web Programming, Statistics for Science and Engineering
- Cultural immersion in Asia and China, reflecting a strong interest in this geographical area

## SKILLS AND PROJECTS

**Cloud Computing** — Amazon Web Services (EC2, S3, IAM), Infrastructure as Code with Terraform. **Project:** Deployment of cloud architectures mixing AWS services and Terraform automation.

**Embedded Systems** — Development with microcontrollers (ESP32, Arduino). **Projects:** Multiple academic and personal applications, including sensor integration and real-time communication.

**Mechatronics** — **Project:** Design and implementation from scratch of a **propeller-motor test bench** for performance study of an experimental drone.

**Networking & Telecom** — Wired/wireless networks, routing protocols (BGP, OSPF), MPLS. **Project:** Design of an enterprise network infrastructure for +200 interconnected sites.

**Internet of Things (IoT)** — **Project:** Development of a **LoRaWAN-based parcel tracking device** with sensors to detect shocks and transport conditions.

## LANGUAGES / EXTRACURRICULAR

**Languages:** French (Native), English (Bilingual, TOEFL iBT 109/120), German (Intermediate)

**Extracurricular:** Technical Manager, Graduation Gala (2024) – Managed technical operations for a 2,000-person event, coordinated a 20-person team, oversaw a €80,000 budget, and handled partner communication.