Lorenzo Drudi

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Experience

Engineering Intern — Lausanne, Switzerland
Logitech – CTO Research Office — *Sept. 2025 – Present*

- Designing a novel distributed clock synchronization protocol for wireless multi-camera setups.
- Optimizing for **real-time performance** and power efficiency, reducing latency and clock drift in **BLE networks**.
- **Tech Stack**: C/C++, Linux, Zephyr, Firmware, Kernel Drivers, Embedded Systems, Distributed Systems.

Open-Source Contributor — Remote
Google Summer of Code – Google DeepMind — *Jun. 2025 – Aug. 2025*

- Developed a comprehensive Gemini API Postman Workspace for **DeepMind**, including mocks and test scripts.
- Built a **GitHub Actions** workflow to automate workspace updates, ensuring 100% synchronization with the API.
- Streamlined integration for developers by creating robust environments for text, image, and code generation.
- **Tech Stack**: JavaScript, Postman, Gemini API, GitHub Actions, CI/CD, REST API.

Software Dev Engineer Intern — Dublin, Ireland
Amazon Web Services (AWS) – CloudWatch Alarms — *Jul. 2024 – Jan. 2025*

- Engineered a **new tool from scratch** solving the 'top-contributor' issue driving the highest volume of tickets.
- Eliminated critical internal metric **ingestion delays**, directly achieving a **10% increase in alarm reliability**.
- Owned the project end-to-end: authored technical designs, led reviews, and secured architectural approval from Principal Engineers.
- **Tech Stack**: Java, Ruby, Python, AWS.

Open-Source Contributor & DevOps Intern — Remote
MLH Fellowship – G-Research — *Jun. 2022 – Sept. 2022*

- Selected as one of ∼150 fellows from 30,000+ applicants (1% rate) to contribute to **G-Research Open Source**.
- Engineered custom **GitHub Actions**, achieving a **3x speedup** and reducing resource consumption by **30%**.
- Provisioned and managed self-hosted GitHub Runners on **GCP** using **Pulumi**.
- **Tech Stack**: Java, TypeScript, Pulumi, AWS, GCP, Docker, Linux, CI/CD.

Education

MSc in Computer Science — Lausanne, Switzerland
École polytechnique fédérale de Lausanne (EPFL) — *Sept. 2023 – Mar. 2026*

- **Specialization**: AI & Data Science. GPA: **5.4/6**. Key Coursework: Distributed Systems, Backend Eng., NLP.
- **Research (dlab)**: Co-authored a **NeurIPS 2024 publication** on LLM personalities and a submitted **ICLR 2026 paper** on Prompt Compression. Supervised by Prof. Robert West.
- **Thesis**: Collaboration with **Logitech (CTO Office)** and RS3Lab.

BSc in Computer Science and Engineering — Cesena, Italy
University of Bologna — *Sept. 2020 – Jul. 2023*

- **Grade**: 110/110 *cum laude*. GPA: **29.5/30**. Awards: **Sergio Focardi Award** (Top student of the year).
- **Thesis**: Engineered TDSFT (cancer segmentation fusion tool). Currently deployed in clinical practice, achieving a **36x speedup** (180 → 5 mins). Co-authored a **Frontiers in Bioengineering publication**.

Projects

Autonomous Drone Racing Team — *Partnership with TII Abu Dhabi*

- Engineered an autonomous navigation stack for high-speed drones presented at the **ICRA 2022 DodgeDrone Challenge**.
- Optimized simulator efficiency and trained **Reinforcement Learning** models for obstacle avoidance.
- **Tech Stack**: C/C++, Python, ROS, AWS, Keras, TensorFlow, RL.

Technical Skills

Languages: Java, Python, C/C++, JavaScript/TypeScript, Scala, Go, Ruby, SQL, HTML, CSS, Bash.
Technologies: AWS, Docker, Kubernetes, Linux, Git, GitHub Actions, CI/CD, Postman, Node.js, React.