

Digital Empowering Leader | IoT Agile Architect | Innovation & Strategy



Gabriel Klein

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Key Competencies

- IoT Architecture for Startups and SMEs
 - Designing scalable, compliant technical environments aligned with industry standards to support growth and innovation. Develop objects, transfer, store and analyze data using machine learning algorithms.
- Management and leadership
 - Over a decade of experience in building and leading diverse teams, fostering collaboration and efficiency through agile methods.
- Strategy and innovation
 - Developing and implementing innovative strategies that connect technical capabilities with business goals to drive growth and answer quickly to customer needs.

Work Experience

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|------------------------|---|-------------------|
| Vivent BioSignals SA | Operational director (COO) | 2024.07 – 2025.07 |
| Léman Micro Devices SA | Vice President of Software & Architecture | 2013.07 – 2023.01 |

Medical device to take blood pressure and other vital signs. Reporting to CEO. ~25 millions.

- Led and directed a multifaceted software program.
- Hired, managed, and coached a team of 5-10 developers in Switzerland.
- Managed projects, aligned software development with stakeholders, customers – Scrum.
- Designed software architecture, component communication API.
- Implemented and developed algorithms in Java, servers in JEE, machine learning.
- Set up a data mining system to be used by R and Python’s systems of our data analyst.
- Led software: android, firmware, module calibration, devops, web api, data.
- Aligned software development process with IEC62304 and ISO13485.
- Managed cloud services (AWS, Edge, Alibaba, OVH), linux system administrator.
- Integrated with top android phone manufacturers (Samsung, Xiaomi, Huawei).

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|------------------------------|--|-------------------|
| Sword Consulting | Senior developer / consultant | 2012.09 – 2013.03 |
| SDATAWAY | Software Engineer and Project Manager | 2011.10 – 2012.04 |
| ElanIt / IMD | Mobile Architect and Developer | 2011.09 – 2011.10 |
| Poken | CSA, Chief Software Architect | 2008.06 – 2011.08 |
| AdsClick | Software Architect and Engineer | 2004.12 – 2008.05 |
| Epsic | Teacher computer system (20%) | 2004.06 – 2008.06 |
| IMD | Java developer, social networks researcher | 2004.03 – 2004.11 |
| Sunrise, Zurich (Internship) | Java developer, data processing | 2003.03 – 2003.09 |

Education

- Executive MBA EPFL – Management, Technology & Entrepreneurship 2013
Program EPFL, HEC UNIL targeting entrepreneurship, innovation and management of technology.
- Engineer in communication systems EPFL - Master of Science Msc 2004
Master Program in Mathematics, Statistics, Physics, Computer Science and Electrical Engineering.

Certifications

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|---------|---|-------------|
| • TOGAF | Enterprise Architecture Foundation | 2023 |
| • Scrum | Professional Scrum Product Owner / Master | 2023 / 2013 |

Languages & Interests

- **French:** Native Proficiency
- **English:** Full Professional Proficiency
- **German:** Limited Working Proficiency
- **Art & Sport:** Trumpet, Swimming, Biking and Skiing
- **Associations:** EPFL Alumni, EMBA Alumni, Brass band “Fanfare du Jorat”
- **IS / IT / IoT:** Home automation (IoT), Raspberry, Espressif, 3D printing, Machine Learning

Skills

- **Management & Leadership** (13 years)
 - Manager of a distributed multicultural team of 5-10 people based in Switzerland and Romania, consultants based in China, Ukraine and California.
 - Certified scrum master & product owner, team & human interactions, change management, technical leadership, lead and set digital, IT, IS, software process.
- **Architecture & Norms** (17 years)
 - Togaf, enterprise architecture, design patterns, IEC 62304, ISO 13485, UML, strategy.
- **Business & Strategy** (10 years)
 - Business model, software strategy, startups, scale-up, innovation management (patents).
- **Project Management** (10 years)
 - Task management, scrum master (PSM I), scrum product owner (PSPO I), set priorities, lead defining release, distribute information, prince 2, ticket management (Redmine, Jira).
- **Software Development**
 - Servers (17 years): J2EE, glassfish, payara, EJB, Jersey, PHP.
 - Web (18 years): HTML 5, javascript, CSS, jQuery, OAuth2, Soap, rest, soap & XML API.
 - Mobile (12 years): Android, NFC, bluetooth, LoRa.
 - Databases & transport (18 years): MySQL, MongoDB, MQTT, Kafka
 - Applications (20 years): Senior java architect, python, bash, C,
 - Embedded Systems (11 years): internet of things, embedded linux, Arduino, Espressif (ESP8266, ESP32).
 - Algorithms (15 years): Feature extraction, filters, real time data processing, data mining, machine learning, LLM.
- **System Administration, DevOps** (17 years)
 - Linux – Ubuntu and Debian.
 - Clouds AWS (Amazon Web Services), EC2, CloudFront, S3, SNS, SES.
 - Infomaniak, GoDaddy, OVH, SoYouStart, Microsoft 365, Dropbox, Google Apps.
 - Apache 2, nextcloud, docker.
 - Jenkins, Hudson - continuous integration.
 - Router, computers, network. CDN (akamai, cloudfront), SSL, HTTPS, DNS.
- **Art & Manufacturing**
 - Skilled non-professional trumpet player. (35 years).
 - 3D tracking, ASCII video art, 3D conception and reconstruction, 3D printing, laser cutting.