

I'm a 6-years experienced software engineer with a em interest in web technologies and cyber-physical systems. I believe that engineering is an artistic and creative way to imagine and build the world we want to live in.

Tool & Technologies

Excel	Expert
Git	Advanced
Linux	Advanced
Notion	Advanced
PostgreSQL	Advanced
Railway Signalling	Advanced
VSCode	Advanced
Zybo devices	Advanced
Bluetooth	Intermediate
STM32 Microcontrollers	Intermediate

Software Languages

Javascript	Master
C	Expert
Python	Expert
Haskell	Advanced
Java	Intermediate
Rust	Intermediate
Swift	Intermediate

Hardware Design

VHDL	Advanced
Vivado	Advanced
Modelsim	Intermediate

Scientific Knowledge

Computer Vision	Advanced
Mechanics	Advanced
Numeric simulation	Advanced
Operational Research	Advanced
Processor Design	Advanced
Artificial intelligence	Intermediate
Computer graphics	Intermediate
Physical Hacking	Intermediate
Signal processing	Intermediate

Industry Knowledge

Project management	Expert
Software design	Expert
System Specification	Expert
Web development	Expert
CBTC	Advanced
Embedded Systems	Advanced
FPGA Prototyping	Advanced
Microelectronics	Advanced
Mobile development	Advanced
Automated Subway	Intermediate
Digital mobility	Intermediate
Product Management	Intermediate
Strategic management	Intermediate
System Design	Intermediate
Game Development	Beginner

Language

English	Advanced
Spanish	Intermediate

Sami Dahoux

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samiBendou

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Experience

Software Engineer *Permanent* **Dec 2021 - Mar 2024**

Aletiq

Paris, Ile-de-France, France

Medior fullstack web developer on Aletiq Product Lifecycle Management solution

- New features development in a complex application
- Technical advises on keys features of the application
- Quality control via code reviews and best practices meetings
- Accountable for technical onboarding of new customers
- Onboarding automation tools design and project manager

Full-Stack Architect *Permanent* **May 2021 - Dec 2021**

Paris, Ile-de-France, France

Develop web architecture on self-initiative and freelance projects

- Web services architecture
- Database architecture
- System administration
- Application design
- Low level & performance oriented

System Engineer *Permanent* **Nov 2020 - May 2021**

Alstom

Saint-ouen-sur-seine, Ile-de-France, France

Design and requirement management on an automated subway solution

- Functional architecture and design specification
- Requirement traceability and refinement
- Preliminary software design
- Verification and validation compliance
- Change request analysis and troubleshooting

Hardware Security Engineer *Internship* **May 2020 - Nov 2020**

Mines St-Etienne

Gardanne, Provence-Alpes-Côte d'Azur, France

Architecture and design of a state of the art hardware attack test bench

- FPGA co-design and hacking
- Embedded software and serial communication
- Client application for intensive computations
- Technical and scientific documentation
- IEEE HOST 2022 first place on best hardware demo

Open-source Developer *Permanent* **Sep 2017 - Mar 2020**

Mines St-Etienne

Software design and development on self initiative projects

- Self learning from MIT and Stanford online lectures
- Computer graphics, image processing, web development
- Open-source simulations, games and code libraries
- Continuous integration and agile development

Formation

Engineering School **2016 - 2020**

Mines St-Etienne

Gardanne, Provence-Alpes-Côte d'Azur, France

Top ten French engineering school oriented towards electronics and computer design.

- Toolbox for software and hardware engineering
- Business and project management
- Specialized in microelectronics design
- Option information technology and supply chain