

Zakariae Haouat

Industrial Software Engineer

- 07 78 47 91 81
- zakaria.haouat@gmail.com
- Bussy-Saint-Georges

Engineer specialized in the development of complete industrial solutions, from field acquisition up to the user interface. With a strong background in electronics, electrical engineering, automation, and industrial computing, I design end-to-end systems by combining software development, integration, and on-site commissioning. Autonomous, curious, and versatile profile, able to intervene across the full chain: architecture, development, deployment, and optimization in real operating conditions.

SKILLS

Software development

C#, VB.NET, C/C++, .NET, ASP.NET, Blazor

Web

HTML, CSS, JavaScript

Data & communication

SQL Server, Entity Framework, OPC UA, SignalR

Systems & infrastructure

IIS, VMware, Windows Server, network, firewall, SSL, BitLocker

Scripting & tools

PowerShell, Bash, Git, GitHub, Azure DevOps, Docker

Project methods

UML, Agile, Scrum, V-model

Industrial environment

SCADA, WinCC Unified, OPC UA, Siemens PLC, commissioning

Technical tools

SolidWorks PDM, AutoCAD, M-Files, Office Script, VBA, Emulate3D, Arduino, Raspberry Pi, ROS

LANGUAGES

- Arabic: native
- French: bilingual
- English: bilingual

PROFESSIONAL EXPERIENCE

Industrial Software Engineer

2023 - Present

Fives Conveying - Montévrain

- Development of a **Blazor .NET SCADA application** to structure the interface, business flows, and field acquisition.
- Definition of the application and infrastructure architecture (**SQL Server, IIS, VMware, Windows Server, network, security**).
- Development of an **OPC UA acquisition service in C#** with real-time communication through **SignalR**.
- Supported the move to **WinCC Unified** as the target solution for Siemens field integration.
- Operated the installation on site and modified and debugged **Siemens PLC** programs.
- Deployment on virtualized environments and industrial systems (**VMs, Panel PCs**), with validation under real conditions.
- Autonomous ownership of the topic to maintain operational continuity between field layer, supervision, and operations.

CAD Administrator

2019 - 2023

Fives Conveying - Montévrain

- Administration of **SolidWorks PDM**, support for **M-Files**, and structuring of document workflows.
- Rebuilt an existing PDM environment with new methods, automation logic, and management rules.
- Contributed to a technical reference vault in M-Files: workflows, scripts, and functional administration.
- Development of SolidWorks add-ins, AutoCAD tools, and business automations in **VB.NET / C#**.

Apprentice Assistant CAD Administrator

2018 - 2019

Fives Conveying - Montévrain

- Development in **VB.NET** and **AutoLISP** for AutoCAD.
- Creation of Excel macros and participation in PDM administration.

Intern - VBA Excel Development

2018

Fives Conveying - Montévrain

- Improvement and maintenance of a costing tool built in **Excel VBA**.

EDUCATION

- **Master's degree in Industrial Computing** - University of Lille 1 (2017 - 2019)
- **Bachelor's degree in Electrical Engineering, Electronics, Automation, and Industrial Computing** - University of Lille 1 (2016 - 2017)
- **DUT in Electrical Engineering and Industrial Computing (GEII)** - IUT of Calais (2015 - 2017)

STRENGTHS

Autonomy

Versatility

System-level vision

Applied R&D

Field understanding

CROSS-FUNCTIONAL COMMITMENTS & RESPONSIBILITIES

C

CSE

Elected member of the Social and Economic Committee for one term.

T

Treasury

Rigorous budget management as part of the treasurer role.

I

Involvement

Active participation in the company's social life.

R

Responsibility

Cross-functional involvement and a strong sense of responsibility in a collective environment.