



Babacar THIAM Automation & Control Engineer

✉ babacarthiam139@gmail.com ☎ +33768119765 📍 Paris, France 🌐 github.com/Babs-New
🔗 [View my Portfolio: www.babscode.com](http://www.babscode.com) [in linkedin.com/in/babacar-thiam-56276a271](https://www.linkedin.com/in/babacar-thiam-56276a271)
🚗 Category B

Professional Experience

Automation Integration Engineer, APILOG

02/2026 – aujourd'hui | Île-de-France, France

Automation Integration Engineer working on projects for major industrial clients including **Renault, Safran, Thales, Edilians, and Rexor**.

Project Assignment – Edilians

- Programmed a complete **tile palletizing and packaging line** using **Schneider M340** and **TSXP57 Premium PLCs**.
- Managed **conveyor systems, grippers, handling forks, stretch hooding systems, and dipping processes**.
- Performed **axis control and motion management** using **servo motors, synchronous motors, and asynchronous motors**.
- Migrated **I/O systems** toward **EDGE IO stations** and **remote PLC architectures**.
- Developed **Human-Machine Interfaces (HMIs)** and replaced operator panels.

Project Assignment – Thales

- Managed **synchronized trap/door systems with axis synchronization** using **servo motors**.
- Worked with **S210 drives, Siemens TIA Portal V21, Safety (STO), SIMATIC DRIVE, S7-1500, and ET200SP**.
- Automated **lifting systems for Rafale components/equipment**.
- Conducted **dynamic testing on customer sites** and final **commissioning**.

Automation Consultant Engineer – Special Machines, Ceva Ecat-ID

01/2026 – 02/2026 | Brittany, France

- Programmed **special-purpose machines** using **Industrial PC (Panel C80)** and **B&R Automation Studio**.
- Managed **servo-driven axes** for **pendulum transfer systems** and **sorting systems**.
- Developed automation logic for **conveyor handling systems**.

Automation and Process Apprentice Engineer, SILL Entreprises

09/2022 – 09/2025 | Brittany, France

Worked on industrial automation projects using **Schneider M340** and **Siemens S7-1200 PLCs**.

- Developed a **PID control system** to recover heat from a **75 kW air compressor** in order to heat sanitary water to **56°C**.
- Achieved an estimated **60% reduction in energy consumption** related to hot water production.
- Designed and automated a complete **mobile tank washing system (1000 L)** with **temperature** and **conductivity regulation** using a **Schneider M340 PLC**.
- Programmed **CIP (Clean-in-Place) sequences** and developed an **HMI in Vijeo Designer** for process control and supervision.
- Designed the mechanical structure of the washing station in **SolidWorks** and integrated instrumentation including **flow, pressure, temperature, and conductivity sensors**.
- Compared, evaluated, and validated technical solutions.

Technical Skills

Software / Systems Environment

- Ubuntu / Linux
- Raspberry Pi / Debian

Mechanical Design

- SolidWorks
- Fusion 360
- AutoCAD

Motion & Control

- PLC Programming
- PID Control
- Servo Motor Control
- Motion Control
- Remote I/O Architectures
- Industrial Safety Systems

Industrial Automation

- Schneider Control Expert
- Siemens TIA Portal
- B&R Automation Studio
- Vijeo Designer
- WinCC
- AVEVA System Platform
- GP-Pro EX
- WinRelais
- XRelais

Education

Engineering Degree in Mechatronics,

University Paris-Saclay – ISTY

09/2022 – 09/2025

Île-de-France, France

Relevant coursework:

- Automation
- Mobile Robotics
- Machine Vision
- Embedded Systems

Advanced Technician Diploma in Automation and Robotics,

UIMM Bretagne

11/2021 – 07/2022 | Brittany, France

- Implemented a **barcode traceability system** and **data historization** in **AVEVA System Platform** to ensure high hygiene and safety standards.

Automation Technician, Agro Mousquetaires Group

04/2021 – 06/2021 | Brittany, France

Industrial project focused on the **automation of industrial boilers** using a **remote DTM I/O island**.

- Performed the **functional analysis** of the water supply system for **3-ton industrial boilers**.
- Implemented control loops for **flow, conductivity, temperature, and pressure regulation**.
- Developed a **supervisory system** for real-time boiler monitoring, including **status, alarms, and process parameters**.
- Designed an **HMI and SCADA control system** using **Vijeo Designer** and **PCVue** to operate and monitor process equipment and instruments.

University Diploma of Technology in Industrial Engineering & Maintenance, IUT Saint-Malo

09/2019 – 07/2021 | Saint-Malo, France

Certifications

Electrical Authorizations

- H0V
- B2V Essais
- BE Essais
- BR
- BC

TOEIC

Level C1