



# Julien Delvingt

Technical Lead in Automation

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📍 Brussels, Belgium

🌐 linkedin

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## Professional Profile

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Engineer passionate about driving digital transformation through operational technologies in industrial environments. Specialized in process control, supervision, and advanced analytics to optimize production performance and minimize costs. Over 5 years of experience implementing Industry 4.0 solutions that enhance control systems, improve operational efficiency, and support continuous innovation.

### Languages

French



Dutch



English



## Areas of Expertise

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### Enterprise Level

#### Factory Digitalization

Design and deployment of integrated digital solutions to transform traditional factories into connected factories of the future. Leveraging industrial data to create added value.

Digital Twin

Big Data Analytics

Cloud Manufacturing

MES

AI & Machine Learning

### Supervision Level

#### SCADA & HMI

Development of ergonomic human-machine interfaces and supervision systems allowing real-time control of industrial processes. Collection and visualization of production data.

Control Maestro

WinCC

SCADA Server

### Field Level

#### PLCs & Process Control

Programming of industrial PLCs and implementation of reliable and high-performance process control solutions. Design and implementation of automation logic.

Siemens TIA Portal

Schneider Electric

Instrumentation

Electrical Design

## Professional Experience

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### Automation Engineer

*Etex, Worldwide*

2022 - Present

- Optimized thickness control in fiber cement production using advanced process control and machine learning, resulting in significant cost reduction and improved product consistency.
- Led the development of a centralized control room for a raw material preparation hall, including the deployment of a SCADA server, six control stations, and an integrated batch control system to enhance real-time monitoring and operational efficiency.
- Program development of a thermal energy storage unit to recover batch heat from autoclaves and enable continuous redistribution of thermal energy across factory consumers, enhancing energy efficiency and reducing overall utility costs.
- Revamped legacy electrical cabinets to align with the latest factory standards, including PLC reprogramming and SCADA system development to enhance reliability, maintainability, and system integration.

Advanced Process Control

SCADA Server

Machine Learning

### Project Engineer

*Etex, Worldwide*

2021 - 2022

- Engineered autoclaving stations, including the development of equipment lists, dimensioning of process components, preparation of technical specifications and tenders, and creation of P&IDs to support procurement and detailed design
- Designed and developed an energy storage system to optimize thermal energy management, supporting process stability and improving overall energy efficiency in industrial operations.
- Designed pneumatic control cabinets in compliance with the latest safety standards, ensuring reliable operation, system integrity, and adherence to industrial safety regulations.

P&ID

Tender

Safety

### Master thesis

*Siemens Digital Industries Software*

2019 - 2020

- Conducted a study on the effect of inverter control laws on the vibration behavior of an induction (asynchronous) motor.
- Tested and identified the motor's electrical and mechanical characteristics through experimental methods.
- Modeled the induction motor and inverter, simulating their dynamic behavior for vibration analysis.
- Programmed the inverter from scratch, implementing a custom control algorithm.
- Isolated and analyzed the inverter's influence on motor vibrations to support noise and reliability optimization.

Control

Matlab Simulink

Asynchronous Motors

Variable Frequency Drives

## Internship

CETIC

2019 - 2019

- Contributed to a project focused on smoothing electrical grid load by predicting household energy consumption patterns.
- Analyzed and generated performance statistics of predictive models across diverse user profiles to evaluate accuracy and reliability.
- Utilized Python extensively, strengthening proficiency in data analysis and relevant libraries to support project goals.

Python

Machine Learning

Prediction Models

Big Data



## Education

2020

### Industrial Engineering with specialization in Automation

ECAM Brussels Engineering School

Specialization in Mechatronics, Robotics, and Automation Engineering



## Certifications

### PMI Training

Xenturion

ACTIVE

2026

Project Management CAPM® / PMP® Basic Course.

Project Management

## Qualified BA5

ACTIVE

Grade ES

2023

Electrical safety training course BA5.

Electrical Safety

## CMSE®

ACTIVE

TÜV Nord

2022

Certified Machinery Safety Expert.

ISO/IEC 27001:2013