

## 01 ABOUT ME

Automation Engineer with 4 years of experience in PLC/SCADA programming, robotics integration and commissioning of high-speed production lines. Skilled in Siemens TIA Portal, Beckhoff TwinCAT, IEC 61131-3 and machine safety (ISO 13849-1). Raised OEE by up to 13 points through control optimisation and Industry 4.0 data integration. Seeking an automation or controls role in an international European team.

## 02 WORK EXPERIENCE

### Automation Engineer

04/2024 – Present

Brabant Industrial Systems B.V., Eindhoven, Netherlands · Business or sector: industrial automation (food & beverage packaging)

- Programmed and commissioned PLC controls (Siemens S7-1500 / TIA Portal, Beckhoff TwinCAT) for **6 packaging lines** to IEC 61131-3.
- Raised average line OEE from **68% to 81%** and cut changeover time by **35%** through recipe-based control and predictive diagnostics.
- Integrated ABB and KUKA robots and vision systems over Profinet, EtherCAT and OPC UA; led FAT/SAT at 5 customer sites.
- Implemented safety functions to **ISO 13849-1 (PL d)** for CE compliance under the Machinery Directive 2006/42/EC.
- Built SCADA/HMI (WinCC) and MQTT-based dashboards (Grafana) for real-time production monitoring.

### Junior Controls Engineer

09/2022 – 03/2024

Limburg Robotics B.V., Venlo, Netherlands · Business or sector: robotics & machine building

- Wrote **60+ reusable function blocks** for robot cells; shortened commissioning time by **20%**.
- Developed HMI screens and alarm concepts; produced EPLAN electrical schematics and I/O lists for 10 machines.
- Configured servo drives and motion control (Siemens SINAMICS, Beckhoff); tuned axes to meet cycle-time targets.
- Provided remote and on-site support to customers in NL, BE and DE.

## 03 EDUCATION AND TRAINING

### MSc Electrical Engineering (Systems & Control)

Eindhoven University of Technology · 2020 – 2022 · EQF level 7

Thesis: model-predictive control for robotic pick-and-place.

### BSc Electrical Engineering

Eindhoven University of Technology · 2017 – 2020 · EQF level 6

Certifications: Siemens TIA Portal Certified Programmer (2023) · TÜV Functional Safety Engineer (2024)

## 04 JOB-RELATED SKILLS

#### PLC & MOTION

Siemens S7-1200/1500, TIA Portal, Beckhoff TwinCAT, IEC 61131-3 (ST, LD, FBD), SINAMICS

#### SCADA & HMI

WinCC, Ignition, Grafana, OPC UA, MQTT, SQL (basics)

#### ROBOTICS & VISION

ABB, KUKA, Cognex, pick-and-place, cobots

#### FIELDBUS

Profinet, EtherCAT, Profibus, IO-Link, Modbus

#### SAFETY & STANDARDS

ISO 13849-1, IEC 62061, Machinery Directive 2006/42/EC, IEC 60204-1

#### ENGINEERING TOOLS

EPLAN Electric P8, AutoCAD, Python, Git, Jira

## 05 PERSONAL SKILLS

Mother tongue: Dutch

| LANGUAGE | LISTEN | READ | INTERACT | PRODUCE | WRITE |
|----------|--------|------|----------|---------|-------|
| English  | C1     | C1   | C1       | C1      | C1    |
| German   | B2     | B2   | B1       | B1      | B1    |
| French   | A2     | A2   | A1       | A1      | A1    |

CEFR: A1/A2 basic · B1/B2 independent · C1/C2 proficient user

**Communication:** explains control concepts to operators and customers; writes clear functional specifications and manuals in Dutch and English.

**Organisation:** plans FAT/SAT schedules and commissioning teams of up to 4 engineers.

**Digital skills:** Information – Proficient · Communication – Proficient · Content – Independent · Safety – Proficient · Problem solving – Proficient

## 06 ADDITIONAL INFORMATION

Community: mentor, FIRST LEGO League robotics (Eindhoven, 2023 –) · Driving licence: B