

Francesco Salvatore

Passionate 2nd year mechanical engineering student 2+ months of experience in the automation industry and full stack developer. Specialties include: CAD designing, coding, project management, automation, PLCs, ladder logic and microcontrollers

Eindhoven, Netherlands

(+39) 377 375 3088

francisalv@icloud.com

[Linkedin](#) [Github](#)

EXPERIENCE

Kellogg's, Belgium— Automation engineer intern

June 2025 - July 2025

- Built a **diagnostics tool in Studio 5000** for detecting faults across 36 Device Level Ring (DLR) circuits, reducing troubleshooting time by 20×.
- Integrated **PLC data to HMI screens** using parameter files and FactoryTalk View SE.
- Conducted testing on **Allen Bradley PLCs and VFDs**, tracing signals through plant networks (EtherNet/IP, DLR).
- Collaborated with senior E&I engineers on **OT cybersecurity** and process automation improvements.

EDUCATION

Technical University Eindhoven TU/e — BSc Mechanical Engineering

2024-2027

PROJECTS

Internet package Diagnostics for DLR systems –

- Developed an **automation fault detection pipeline** to identify connection failures in industrial networks.
- Enabled engineers to pinpoint root causes faster, improving production line uptime.

Automated Whatsapp automated puzzle service –

- Designed and deployed a **chatbot (Twilio + Firebase + React)** delivering daily puzzles to users.
- Integrated **Stripe payments** and automated scheduling system. *(Highlights full-stack skills beyond automation)*

OT vs IT factory security paper –

- Wrote a research paper on **industrial cybersecurity**, analyzing vulnerabilities at the OT/IT interface.
- Proposed standards for securing operational technology layers in smart factories.

SKILLS

Industrial Automation

(Allen-Bradley / Rockwell Studio 5000, FactoryTalk View SE)

Control Systems & Simulation

(MATLAB/Simulink, system modeling)

Embedded Systems

(Arduino, signal processing)

3D Design & Manufacturing

(SolidWorks, Onshape, SiemensNX with 3D printing)

Programming & Scripting

(Python for data/signal processing, C for embedded)

Industrial Networking & Protocols

(EtherNet/IP, Modbus, OPC UA fundamentals)

AWARDS

Student collaborator of the year 2x

Cultural student of the year

All Ireland volleyball finalist 4x.

Certifications

First Aid Qualified (2022)

Barista certified (2021)

Rewrite Sustainability program 101 (2021)

LANGUAGES

Italian | Native

Dutch | Native

English | Fluent

Spanish | Learning

