

# FEDERICO BAGGIO

MECHATRONICS ENGINEER\_

Automation Software Developer specialized in Siemens and Beckhoff systems.  
Focused on industrial device security and technological innovation.

## SKILLS

### AUTOMATION

TIA Portal TwinCAT 3 Structured Text HMI Design

### PROGRAMMING

Python C/C++ Matlab Wolfram Ruby LaTeX

### ENGINEERING TOOLS

Fusion 360 LTspice Eagle MapleSim Linux

## EDUCATION

MAY 2022

### M.SC. IN MECHATRONICS ENGINEERING

UNIVERSITY OF TRENTO

Electronics and Robotics: 108/110. Focus on automation and industrial cybersecurity.

NOV 2019

### B.SC. IN INDUSTRIAL ENGINEERING

UNIVERSITY OF TRENTO

Mechatronics track: 105/110. Solid foundation in mechanical and electronic design.

## WORK EXPERIENCE

MARCH 2024 - PRESENT

### STEVANATO GROUP

#### AUTOMATION SOFTWARE DEVELOPER

Development of logic and graphical interfaces in Siemens environment for pharmaceutical glass container handling lines.

AUGUST 2022 - MARCH 2024

### SIPA

#### SOFTWARE DEVELOPER

Development of Beckhoff PLC software (TwinCAT 3) and HMI for plastic container production machinery.

## PROJECTS

### MASTER'S THESIS

#### CYBERSECURITY IN INDUSTRIAL DEVICES

Developed in collaboration with Eliwell by Schneider Electric. Focused on the secure design and development of industrial devices.

### NETWORKING

#### TRAP PROTOCOL SIMULATOR

Python software to simulate the energy performance of network nodes communicating with or without the TRAP protocol and Backscatter communication.

### ELECTRONICS

#### VISIBLE LIGHT COMMUNICATION

Hardware and software design of a prototype to test VLC with a battery-less receiver and energy harvesting capabilities.

## EXTRA & VOLUNTEERING

### LEADERSHIP

#### DIOCESAN SECRETARY (MSAC)

Coordinated student movements and activities between 2017 and 2020. Parish and diocesan youth leader since 2015.

### SPORTS

## **BASKETBALL COACH & PLAYER**

Basketball player since 2005. Certified Minibasket coach with experience training youth teams.

## **INNOVATION**

## **JETN & RURALHACK**

Participated in business games and workshops on Arduino and Telegram bots for agricultural instrumentation management.

## **CONTACT**

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