FEDERICO BAGGIO

MECHATRONICS ENGINEER_

Automation Software Developer - Tech enthusiast - DIY lover

SKILLS

AUTOMATION

`TIA Portal` `TwinCAT 3`

PROGRAMMING

`Python` `C/C++` `Matlab` `Wolfram` `Ruby` `LaTeX`

ENGINEERING TOOLS

`Fusion 360` `LTspice` `Eagle` `MapleSim`

EDUCATION

MAY 2022

M.SC. IN MECHATRONICS ENGINEERING

UNIVERSITY OF TRENTO

Electronics and Robotics: 108/110.

NOV 2019

B.SC. IN INDUSTRIAL ENGINEERING

UNIVERSITY OF TRENTO

Mechatronics: 105/110.

WORK EXPERIENCES

MARCH 2024 - PRESENT

STEVANATO GROUP

AUTOMATION SOFTWARE DEVELOPER

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

federicobaggio4@gmail.com

+39 342 098 6971