

DIEGO NAPOLITANO

INDUSTRIAL IT

I am a 20-year-old student in my final year of university college with a specialization in industrial IT. I am strongly interested in IA, Industry 4.0, automation, programming and I am eager to apply my skills in these fields.

PERSONAL INFORMATION

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- 12th December 2003

STRENGTHS

- Teamwork
- Hard work
- Patient
- Compassionate

HOBBIES

- Photography, especially taking pictures of the night sky.
- Drawing, it helps me to focus.
- Video games.

SKILLS

- **Technologies:** Automation, Object-Oriented Programming, Linux, Web front-end, Web back-end, Basic electronics, Microcontroller.
- **Software:** Visual studio code, Idea project, Eclipse, Code::Blocks, Unity XL, TIA17, Office suite.
- **Languages:** French - native, English - B2.

EDUCATION

2025

UNIVERSITY COLLEGE HAUT ECOLE LOUVAIN EN HAINAUT, CHARLEROI

2022

TECHNICAL SECONDARY SCHOOL SAINT-ANDRÉ, CHARLEROI

2022

HIGHER SECONDARY SCHOOL CERTIFICATE

PROJECTS

BALLS SORTING

2024

I created an automated system that sorts and counts golf balls by their colour, in a team of 2 other students. I developed the Arduino code that controls actuators and reads data from sensors and the website, which can read the number of balls sent from the Arduino and displays them to the webpage.

EXPERIENCE

MIC – MEET INNOVATE CREATE

TECH GOES WILD HACKATHON, Mons

March 2024

I worked in a team of six students, and we developed a custom chatbot named LENNY, using these following technologies:

- RAG (Retrieval-Augmented Generation) for response generation.
- FAISS (Facebook AI Similarity Search) for efficient similarity searches.
- Gradio for building an intuitive user interface.
- Text-to-speech and speech-to-text functionalities.

I worked on the text-to-speech, speech-to-text functionalities, and user interface of this project, which earned third place in a competition judged by industry leaders from Microsoft and Proximus.