



JOBSACADEMY

FONDAZIONE





Jobs Academy is an ITS, Higher Technical Institute, a vocational alternative to university courses.

JAC trains highly skilled technicians in strategic **technological areas**, thanks to a partnership with **over 2500 companies**, who work alongside JAC every day developing and transferring skills in our courses. The mission at Jobs Academy is to **foster and accompany the growth of each individual**, putting their personality and attitudes at the centre of every educational-organizational choice.

"OUR WORK ENDS WHEN YOURS BEGINS" (Founder, Daniele Nembrini)







Software Area

Web Development	~
Cloud Development	~
AI-Integrated Web Development	~
IT systems management	~
Cyber Security	~
Business Software Consultancy	~

Technical Area

Mechatronics and Integrated Systems 4.0

Design experience & Digital communication

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Design and 3D Modelling

Mechatronics and Industrial Automation 4.0

Design Area

Digital Painting and Comics







Business Area

Finance, Banking and Insurance

Economics and Management Control ~

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HR Management

Green Area

Building And Energy District Management

Sustainable construction

Energy and innovation

Marketing Area

International Marketing Management

Customer Management

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Marketing for Art and Cultural Heritage

Store Management

International Tourism & Digital marketing strategies

Digital Marketing & social media

Marketing & Sales







PLC applications in Mechatronics Start-ups

A new way to inspire ITS students to get into green start-up's universe with the most requested hard-skill in mechatronics field







Project Goals

- Design and develop a concept of a PLC-based project
- Include innovative ideas and use-cases
- Use new, smart and sustainable technological components to automate the process
- Safety logics to run the process as smoothly as possible
- Try to contribute to environmental sustainability, ensuring a positive impact on the planet
- Learn how to do SWOT analysis and Market Researches
- Provide a 4.0 and IoT interconnection and infrastructure







Micro-Course

The micro-course was taught by a Teacher that works specifically with 4.0 technologies to improve:

- Knowledge of new-technology sensors
- Integration with 4.0 and IoT technologies
- Creating infrastructures to connect new and old machinery





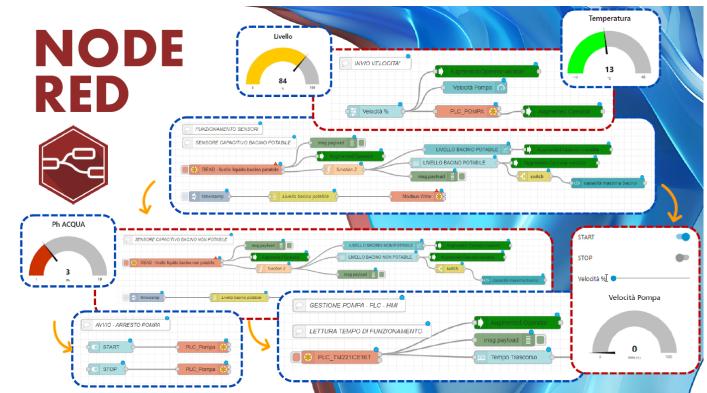


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Challenges

Students had to face many challenges, including (but not limited to):

- Choosing an idea that would be economically sustainable
- Study what the demand of the product would be
- Study potential application in different fields
- Search for Key Competitors and define how to differentiate
- Implement 4.0 and IoT technologies







Project Ideas and Required Skills



Each project's aim was to develop a **start-up** idea that would be created using technologies and component provided by Schneider Electric.

To create those projects, students had to apply a wide range of hard and soft skills acquired during 2 years of ITS educations.

Some of them are:

- 3D Modelling with SolidWorks or CREO
- Presentation design
- Market Research
- Team Work and communication







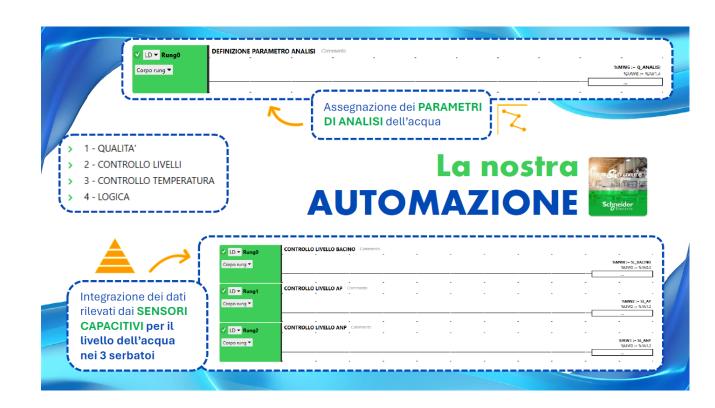
Hard Skills Developed through Micro-Courses



This has been an opportunity for the students to apply what they have learnt during the microcourse.

Especially:

- Advanced PLC programming with specific structures
- IoT implementations, as well as 4.0 technologies
- Safety logics
- New Sensors and component usage and integration









Thank you for your attention!





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