



Silvia Stella

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Gender: Female **Date of birth:** 13/05/1999 **Nationality:** Italian

EDUCATION AND TRAINING

[2013 – 2018]

Scientific high school diploma

Scientific high school G. Salvemini - Bari <https://liceosalvemini.edu.it/>

Address: Via Giuseppe Prezzolini, 9, 70126, Bari, Italy

Final grade: 100/100

[09/2018 – 10/11/2021]

Bachelor's Degree in Computer and Automation Engineering

Polytechnic of Bari <https://www.poliba.it/it>

Address: Via Edoardo Orabona, 4, 70126, Bari, Italy

Field(s) of study: Computer and Automation Engineering

Final grade: 103/110

Type of credits: CFU **Number of credits:** 180

Thesis: LOGISTICA 4.0: TECNICHE DI DECISIONE E CONTROLLO PER LA PALLETTIZZAZIONE MISTA

During the thesis work, a support tool for the design of a robotic work cell was defined. The work island is dedicated to homogeneous and mixed bins' palletizing and depalletizing. The instrument allows the simulation and the evaluation of alternative operating scenarios to optimize cell performance.

It is cooperated with the Teicom Sistemi S.r.l. company, which works in the finished product handling sector for the food industry, and with the D&C Lab of the Polytechnic of Bari. In particular, thesis supervisors are Prof. Eng. Paolo Lino and Prof. Eng. Mariagrazia Dotoli.

Studied subjects:

- Mathematical analysis, Geometry and Algebra, Numerical calculation
- Physics, Chemistry
- Industrial Automation, Digital control
- Applied Mechanics, Electric machines
- Databases and information systems, Operating system

[11/11/2021 – Current]

Master's Degree in Automation Engineering

Polytechnic of Bari <https://www.poliba.it/it>

Address: Via Edoardo Orabona, 4, 70126, Bari, Italy

Field(s) of study: Automation Engineering

Type of credits: CFU **Number of credits:** 120

- Sensors and transducers;
- Human and machine interaction;
- Dynamical Systems Theory;
- Estimation and control of dynamical systems

PROJECTS

Technique for the design and management of an automatic mixed palletizing system based on colored Petri nets

After the realization of the triennial thesis study, the Teicom Sistemi S.r.l. collaboration continued with the aim to improve the support tool for the design of the automatic palletizing cell previously defined. Different scenarios are tested to obtain the optimal result.

Student collaboration activities

Student collaboration activity at the university library of the Polytechnic of Bari.

PUBLICATIONS

[2023]

Cavone, G.; Stella, S.; Scarabaggio, P.; Carli, R.; Lisi, S.; Garavelli, C.A.; and Dotoli, M. "A Petri Net Simulation Approach for the Design of Robotic Palletizing Cells," 9th International Conference on Control, Decision and Information Technologies (CODIT 2023), July 3-6, 2023, Rome, Italy. (submitted).

In this work, a versatile simulation-based tool for modeling and analysis purposes is proposed, this instrument is aimed at supporting the design of a robotic palletizing cell.

Coloured and timed Petri nets are used as basic methodology, these allow, once the analysis on packaging requirements and constraints has been conducted, to model the system quickly as a composition of basic subsystems and to simply implement alternative simulations to evaluate performances corresponding to different configurations. The proposed approach is applied to a real design problem, showing its effectiveness in spotting the optimal solution, that reaches a good compromise between the use of resources and the performance of warehouse operations.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B2

LINGUISTIC EXPERIENCES

EstateINPSieme experience

Language: English

Period of study duration : 2 weeks

Study abroad city: Oxford (UK)

Description: Study vacation experience. Sharing of knowledge with people of different nationalities and moment of great personal growth.

DIGITAL SKILLS

OFFICE AUTOMATION

Web Browser (Advanced) | Text processing (Advanced) | Presentation Software (Advanced) | Spreadsheets (Intermediate)

PROGRAMMING

Programming languages JavaScript (Basic) | Web Programming (Basic) | Programming languages Java (Basic)

SYSTEMS AND NETWORKS MANAGEMENT

Operating Systems (Basic)

DATA MANAGEMENT

Database management systems DBMS (Advanced)

GRAPHIC AND MULTIMEDIA

Video Processing / Editing (Intermediate) | Streaming and video conferencing (Advanced)

ICT CERTIFICATIONS

ECDL Standard 2011

COMMUNICATION AND INTERPERSONAL SKILLS

Soft skills

- Team spirit developed thanks to sporting experience in an 11-a-side women's soccer team;
- Empathy;
- Willingness to listen;
- Good communication skills;
- Good ability to adapt to multicultural environments, achieved thanks to the study holiday experience abroad

ORGANISATIONAL SKILLS

Organizational and management skills

- Management of teaching methods (Mathematics, Physics and Chemistry tutoring for secondary school)

DRIVING LICENCE

Cars: B

HOBBIES AND INTERESTS

Sport

Currently, player in the Molfetta Calcio Femminile team of women's 11-a-side football.