

SALONE DELL'ORIENTAMENTO 2026

CORSO DI LAUREA MAGISTRALE

INGEGNERIA INFORMATICA

COMPUTER ENGINEERING



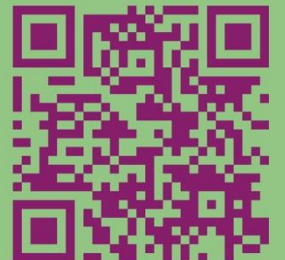
**Politecnico
di Torino**

Presenter:

Alessandro Savino

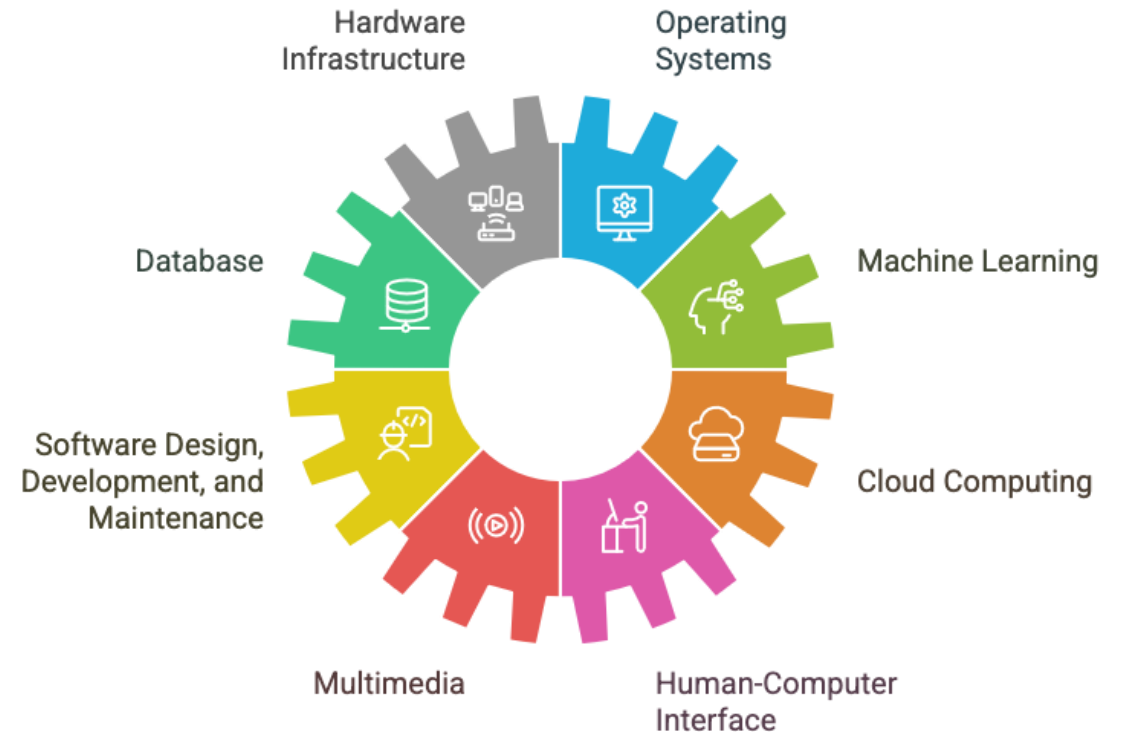
Academic Advisor

**SCOPRI TUTTI I
CORSI DI STUDIO
A.A. 2026/27
www.polito.it**



Master of Sciences in Computer Engineering

- Computer Engineering:
 - It is a branch of engineering that studies computer systems from the hardware and software point of view, focusing on the design, development, and maintenance of complex elaboration systems.



Educational goals

Hardware infrastructure	Operating systems	Database	Machine learning	Software design, development and maintenance
Cloud computing	Multimedia	Human-computer interface	Artificial Intelligence	Robotics
Unmanned systems	Mobile applications	IoT	Embedded Systems	Bioinformatics

Educational approach

- **Integrated Learning**
 - Combining hardware, software, networks, and user perspectives to understand complex systems holistically.
- **Systems Thinking**
 - Encouraging students to analyze and design solutions considering technical, human, and organizational dimensions.
- **Continuous Learning**
 - The curriculum is regularly updated to reflect emerging technologies and industry trends.
- **Adaptive Teaching**
 - Flexible teaching methods that evolve alongside technological advancements prepare students for real-world challenges.
- **Theory Meets Practice**
 - Courses structured around practical projects, case studies, and real-world scenarios to reinforce theoretical concepts.



Structure of the program of courses

Mandatory courses for all the tracks

5-6 common topics

Basic and general content

Qualifying courses for any track

3-5 specific topics

Eligible in other tracks

Track oriented free choice courses (6 + 6 CFU)

Second year, I and II Period

Courses might be in more tracks

Suggested choices

Free credits (6 CFU)

Free choice tables are available

2-3 options

MSc Thesis (CFU)

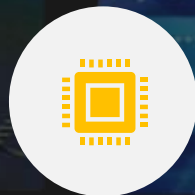
Thesis (30)

Stage (12) + Thesis (18)

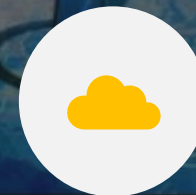
Specialization tracks in the MSc degree in Computer Engineering



Artificial
Intelligence and
Data Analytics



Embedded &
Smart Systems
Design



Computing and
Network
Infrastructures



Automation and
Intelligent Cyber-
Physical Systems



Graphics and
Multimedia



Software



Human-
Computer
Interaction

NEW!



Specialization tracks in the MSc degree in Computer Engineering



Artificial Intelligence and Data Analytics

This track provides advanced knowledge and practical skills in:

- **big data analytics**
 - **machine learning**
 - **computational intelligence**
- to extract insights, recognize patterns, and build intelligent solutions for real-world challenges.

Specialization tracks in the MSc degree in Computer Engineering



Automation and Intelligent Cyber-Physical Systems

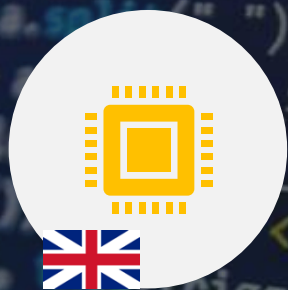
This track provides advanced knowledge and practical skills in:

- **optimization methods**
- **control theory**
- **intelligent systems**

Students will learn to design, analyze, and implement sophisticated solutions for complex systems, including robotics.



Specialization tracks in the MSc degree in Computer Engineering



Embedded & Smart Systems Design

This track provides advanced knowledge and practical skills in:

- **embedded & IoT systems management**
- **digital system design**
- **security and safety**

Students will master embedded hardware and software, focusing on system-on-chip architectures, energy management for IoT, and cybersecurity.



Specialization tracks in the MSc degree in Computer Engineering



Graphics and Multimedia

This track provides advanced knowledge and practical skills in:

- **computer graphics**
- **image processing**
- **computer vision**
- **multimedia technologies**

Students will explore cutting-edge topics such as virtual reality and integrating machine learning techniques for multimedia applications.

Specialization tracks in the MSc degree in Computer Engineering



Computing and Network Infrastructures

This track provides advanced knowledge and practical skills in:

- **cloud computing**
- **software-defined networking**
- **web application development**

Students will gain expertise in designing, deploying, and managing scalable networking solutions.

Specialization tracks in the MSc degree in Computer Engineering

This track provides advanced knowledge and practical skills in:

- **software engineering**
- **information systems**
- **application development**

Students will master software architecture and design, gaining expertise in building robust, user-centered software solutions.



Software



Specialization tracks in the MSc degree in Computer Engineering



Human-Computer Interaction

This track provides advanced knowledge and practical skills in:

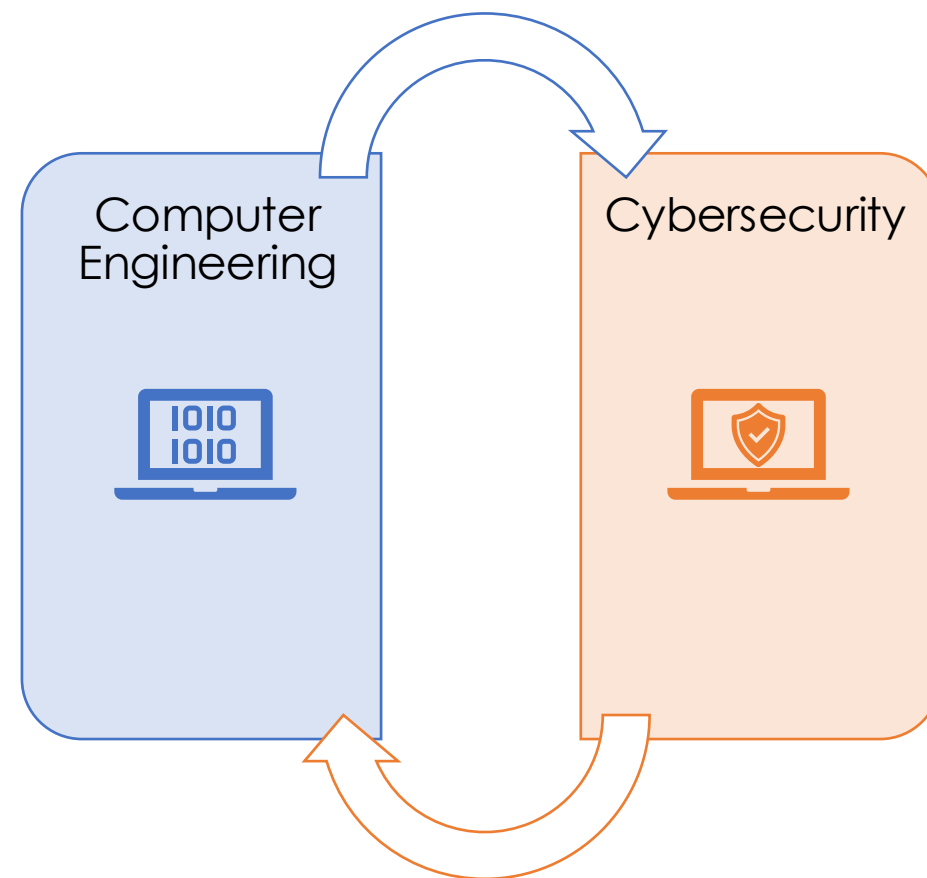
- **user-centered interactive applications**
- **usability and quality assessment**
- **human-centered AI principles**

Students will master the principles, methods, and tools for analyzing user needs, designing and prototyping interactive interfaces, and evaluating usability, accessibility, and experience.



Twin Track Master Program

- Allows students to earn **two Master's degrees in three academic years** instead of the traditional four years.
- Students first enroll in one Master's programme (2 years), then pursue a second related Master's degree with optimized credit recognition and shared coursework (1 year).
 - Cross-disciplinary and multidisciplinary training opportunities
 - Structured pathways between complementary engineering fields
 - Enhanced career prospects through dual specialization

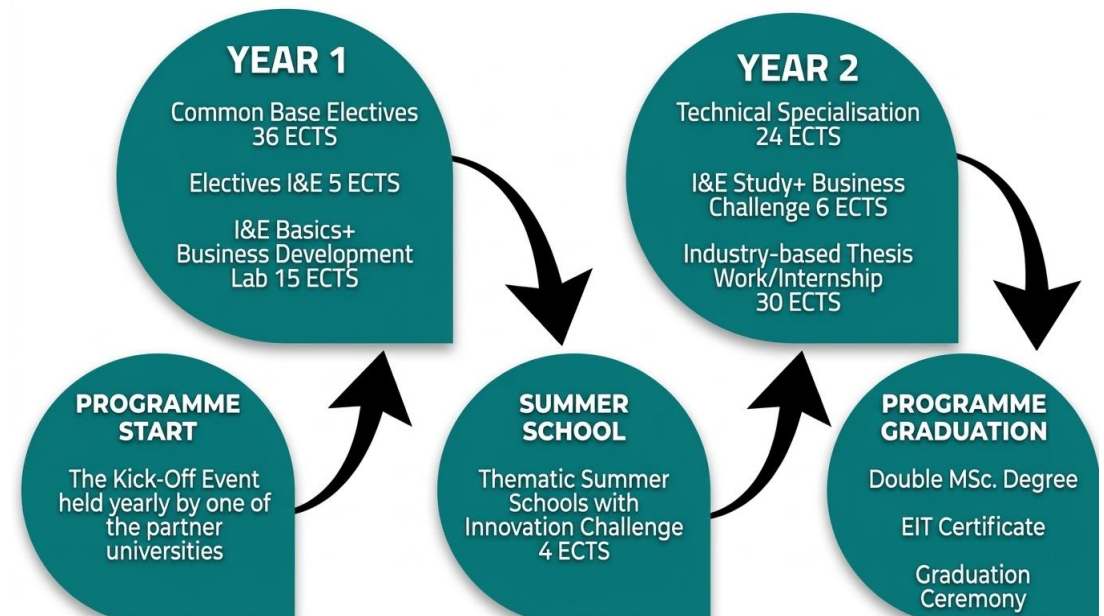
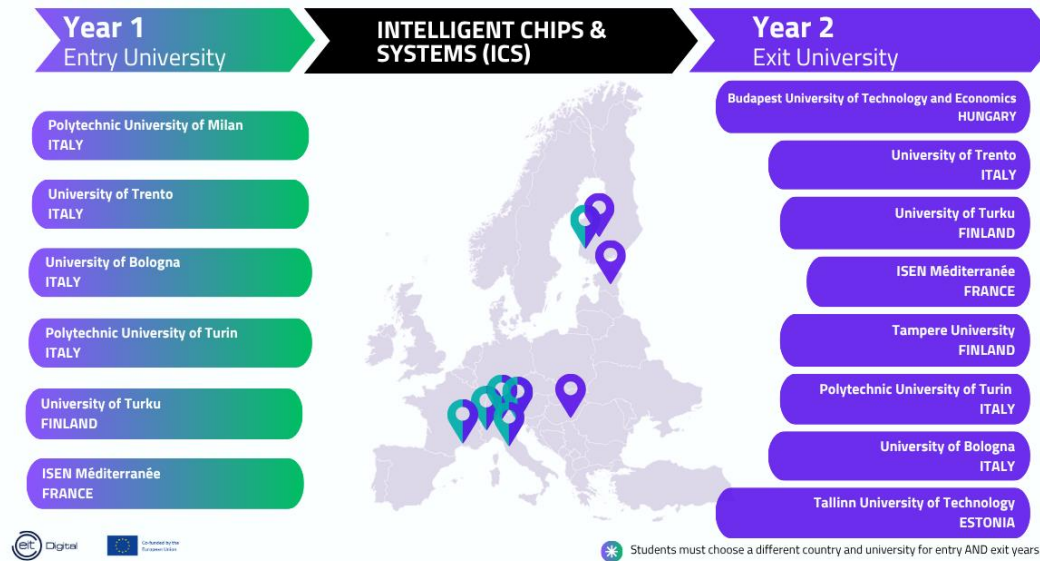


Student Mobility and Erasmus programs

- More than 150 active agreements correspond to destinations in Europe and the world for Master Thesis, double degrees, and simple mobility programs.



Intelligent Chips and Systems



POLITO in the Intelligent Chips and Systems (ICS)

- We offer entry and exit opportunities
 1. **Entry Year** is commonly designed to meet the fundamental knowledge by building a solid 1st year.
 2. **Exit Year** builds specialization skills that are unique.
 1. POLITO specialization is on **Energy-Efficient and Reliable Embedded Systems**
- Applications to the Double Degree Master Programme are centralised and managed by EIT Digital.
 - <https://masterschool.eitdigital.eu>

Career opportunities

- MSc Computer Engineer qualification:
 - Network Systems Designer
 - Computer Graphics Designer
 - Software designer
 - Designer of industrial automation systems
 - Embedded systems designer
 - Data Analytics and Artificial Intelligence designer

The European Commission estimates that by 2030, the EU will have a shortage of 8 million ICT specialists!



Enterprises employing, recruiting and having hard-to-fill vacancies for ICT specialists by economic activity, EU, 2022
(% of enterprises)



eurostat

What is a Ph.D.?

- The **Doctor of Philosophy (Ph.D.)** is the highest degree in the academic system
- A Ph.D. provides strong technical competencies and effective soft skills
- The Ph.D. at Politecnico di Torino lasts **three years**
- The Ph.D. period is **paid**
 - Scholarships from PoliTo, companies, research centers, PNRR, etc.

Ph.D. in Computer and Control Engineering



- **Current research topics**

- Computer architectures and Computer Aided Design
- Data science, Artificial Vision and AI
- Computer graphics and Multimedia
- Software engineering and Mobile computing
- Control and system engineering
- Life sciences
- Cybersecurity
- Parallel and distributed systems
- Quantum computing

- www.polito.it/en/education/phd-programmes-and-postgraduate-school/phd-programmes/computer-and-control-engineering

- www.linkedin.com/company/phddaui/

- **Coordinator**

Prof. Fabrizio Lamberti
fabrizio.lamberti@polito.it

- Department of Control and Computer Engineering

Ex-alumni

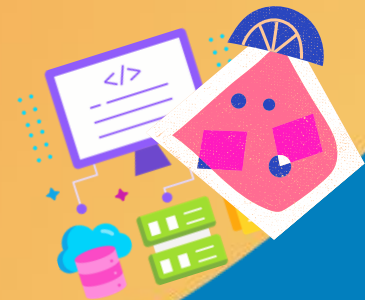




Politecnico
di Torino



#TOMORROW STARTS TODAY



Aperitivo di Benvenuto

Venerdì **27 Marzo** 2026

H. **17:30**

2° piano Dipartimento **DAUIN**, **Corso Castelfidardo 34/d** (ingresso lato MixTo)

Occasione perfetta per fare nuove conoscenze, scoprire i laboratori DAUIN del collegio ICM ed incontrare i docenti dei relativi corsi di studio!

Thanks for your attention!

Telegram group



Contacts
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<https://t.me/LMInglNf>

