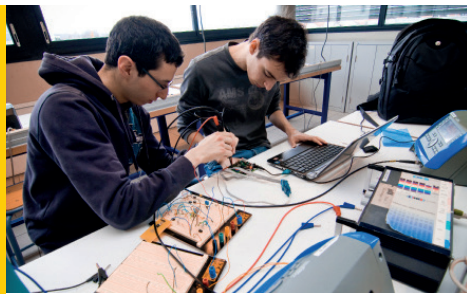
POLYTECH GRENOBLE

Computer Science and Electronics for Embedded Systems

Computer Science and Electronics for Embedded Systems program graduates in Industrial Instrumentation and IT possess strong skills in industrial electronics, automation, and information systems. They are well-equipped for careers in systems integration, with know-how spanning the design, implementation, and testing of complex electronic and information systems while taking into account the issues of power consumption, secure communications and real-time operation.



Our graduates possess solid general engineering skills

- A capacity to use resources from a broad range of basic sciences
- Knowledge and understanding of a specialty scientific and technical field
- Mastery of engineering tools and methods
- An ability to work within an organization, manage a team, and implement change
- Understanding of broader industrial, financial, and professional issues
- A capacity to work in international settings
- Respect for societal values.

Recent graduates have secured positions like:

R&D engineer
Integration & testing engineer
Design engineer
Development & production engineer
Systems engineer
Product manager

Graduates have mastered specific competencies that prepare them to handle real-world professional situations:

Competency	Situation
Selecting an appropriate technical solution that meets technological, human resources, cost, and environmental requirements	• Designing a prototype • Upgrading a manufacturing environment
Interfacing a set of software and/or hardware components	• Designing component assemblies • Ensuring that components can communicate with each other
Developing a complete sensor, processing, communication, and switching system	• Maintaining and upgrading systems • Creating new applications for a system
Demonstrating appropriate organization and interpersonal skills	• Promoting a project • Transferring knowledge • Adopting multiple points of view depending on the situation • Successfully carving out a position within the company
Staying ahead of technological advances	• Keeping knowledge up to date • Gathering and organizing scientific and technical data

In-company placements
Third year: optional placement
Fourth year: 12 weeks
Fifth year: 22 weeks
Graduation project: for external customers (companies or research labs)

A selection of companies that have hired engineering graduates from this program

ST MICROELECTRONICS, CAPGEMINI, ORANGE BUSINESS, SCHNEIDER ELECTRIC, SOPRA, ALTEN, VIVERIS

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