

# Computer Science and Electronics for Embedded Systems

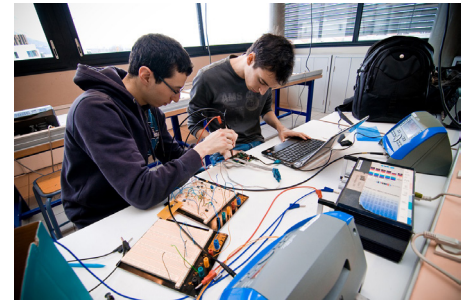
Computer Science and Electronics for Embedded Systems program graduates in Industrial Instrumentation and IT possess strong skills in industrial electronics, automation, and information systems. They are well-equipped for careers in systems integration, with know-how spanning the design, implementation, and testing of complex electronic and information systems like measurement chains, complete industrial process automation systems, and embedded systems.

Recent graduates have secured positions like:

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

## 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.



## 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	<ul style="list-style-type: none"> <li>• Designing a prototype</li> <li>• Upgrading a manufacturing environment</li> </ul>
Interfacing a set of software and/or hardware components	<ul style="list-style-type: none"> <li>• Designing component assemblies</li> <li>• Ensuring that components can communicate with each other</li> </ul>
Developing a complete sensor, processing, communication, and switching system	<ul style="list-style-type: none"> <li>• Maintaining and upgrading systems</li> <li>• Creating new applications for a system</li> </ul>
Demonstrating appropriate organization and interpersonal skills	<ul style="list-style-type: none"> <li>• Promoting a project</li> <li>• Transferring knowledge</li> <li>• Adopting multiple points of view depending on the situation</li> <li>• Successfully carving out a position within the company</li> </ul>
Staying ahead of technological advances	<ul style="list-style-type: none"> <li>• Keeping knowledge up to date</li> <li>• Gathering and organizing scientific and technical data</li> </ul>

### In-company placements

Third year: 8 - 12 weeks in June and July  
 Fourth year: 12 weeks from May to August  
 Fifth year: 22 weeks from April to September  
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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