Thomas Ricart
Mathematics and Computer Science Teacher

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Teaching Experience

Since 2019	🔖	**Computer Science Teacher :** Teaching of NSI specialty (digital and computer sciences), SNT (digital science and technology).
Since 2014	🔖	**Mathematics Teacher :** Teaching in high school (Specialty teaching, Expert Mathematics...), BTS (CIEL : Cybersecurity) and middle school.
2007 – 2014	🔖	**Technology Teacher :** Teaching in middle school.
2001 – 2004	🔖	**Tutorial and Lab Instructor :** Teaching assistant – Paul Sabatier University – Toulouse (31). Bachelor's level : Probabilities, statistics, dipole characterization, optics, methodology, RLC resonant circuits, Hall effect...
	🔖	**Tutorial and Lab Instructor :** Teaching assistant – INSA – Toulouse (31). 5th year : Memcad software.

Education

2019 – 2020	🔖	**Inter-University Diploma :** Teaching Computer Science in High School.
2014	🔖	**External CAPES in Mathematics**
2006	🔖	**External CAPET in Technology**
2004 – 2006	🔖	**Preparation for the external competitive exam for the agrégation in Electrical Engineering :** : Bi-admitted 2005 and 2006
2001 – 2004	🔖	**PhD "Design and Implementation of Storage Elements for Integrated Static Converters"** aboratory for Analysis and Architecture of Systems (LAAS – CNRS – Toulouse) in the TMN group (C. Alonso and C. Vieu).
2000 – 2001	🔖	**DEA "Design of Microelectronic Circuits and Microsystems CCMM" :** : Laboratory for Analysis and Architecture of Systems (LAAS – CNRS – Toulouse) in the TMN group (C. Alonso). 2001 : Internship TMN group : Design and implementation of magnetic storage elements for integrated converters (Report 01309)
1999 – 2000	🔖	**Master's Degree "Electronics, Electrical Engineering and Automation" :** Joseph Fourier University (Grenoble – 38) 2000 : Internship at the Laboratory of Information Technology and Microelectronics for Computer Architecture (TIMA)
1996 – 1999	🔖	**Engineering Student at the National School of Electronics and Radioelectricity (ENSERG) :** National Polytechnic Institute (INP – Grenoble – 38) 1998 : Internship at the Laboratory of Physics of Semiconductor Components (LPCS – Grenoble)
1994 – 1996	🔖	**Polytechnic Preparatory Class (CPP) integrated into the National Polytechnic Institute (INP – Toulouse – 31)**
1994	🔖	**Scientific Baccalaureate with Honors :** : Bellevue High School (Toulouse – 31)

Local Involvement

Network Administrator	❚	Management of the educational network
RUPN	❚	Reference person for digital educational resources and uses
ENT Administrator	❚	Management of the high school's digital work environment and Educonnect administrator.
Administrative Council	❚	Member of the standing committee, ICT committee and Health and Safety committee.
Coordination	❚	**NSI discipline coordinator** .

Educational Involvement

Projets	❚	Participation in NSI Trophies, "Passe ton hack d'abord"...
Grading	❚	Grading NSI Olympiads, Mathematics Olympiads
Tutoring	❚	Tutoring, homework help, preparation for general competitive exam...
CNED	❚	Educational tutor in Mathematics, course designer in Computer learning. (distance learning)
Palace of Versailles	❚	upport teacher with the cultural and educational action of the Palace of Versailles : Creation of digital documentary resources, creation of Interactive Images, Administration of the Palace of Versailles website. (2011 – 2015)

Academic Involvement

IAN NSI et SNT	❚	Since 2025 : Academic Digital Liaison for NSI (digital and computer sciences) and SNT – Toulouse Academy.
Mathematics Trainer	❚	Academic mission officer for mathematics in BTS CIEL.
NSI and SNT Trainer	❚	Creation of educational resources for teachers.
Formateur Langage	❚	Academic trainer on Python language
Conception de sujets	❚	Design of written and oral exam subjects for NSI baccalaureate.

Skills

Programming	❚	Languages Python, R, LaTeX, Html, Javascript, C++, Assembleur.
Networks	❚	Computer network administration under Samba Edu3
Educational Software	❚	Géogebra, Xcas, Google Sketchup, Images Actives
Various Software	❚	Office Suite, Photoshop, Photofiltre…
Operating Systems	❚	Windows, Linux, Dos

Langues

English	❚	Good level
German	❚	School level
Italian	❚	Currently learning