



POLITECNICO
MILANO 1863



"Welcome day" Master of Science in **ELECTRONICS ENGINEERING**

prof. Franco ZAPPA

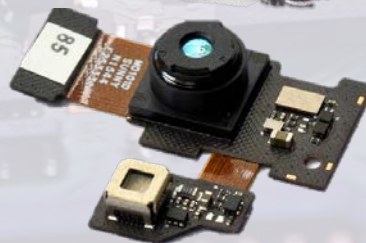
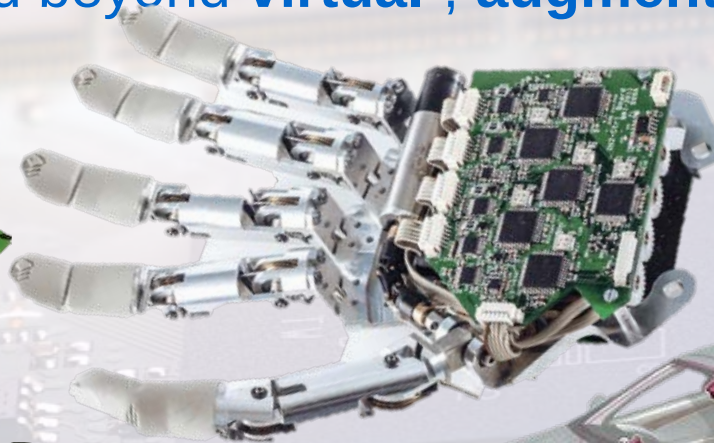
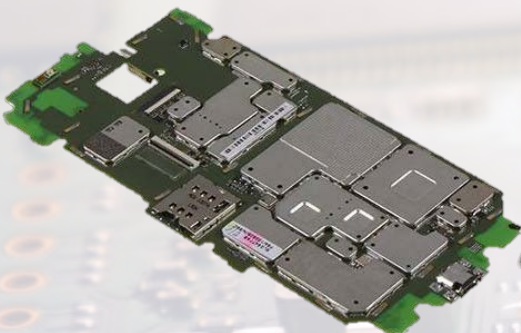


1. what is **ELECTRONICS** (~~not ELECTRICAL eng.~~)
2. POLIMI and **DEIB** (Dept. of **ELN+INF+TLC+BIO+ATM**)
3. **Laurea Magistrale / Master of Science in Electronics Eng.**
4. contacts and channels
5. expertise, skills, employment opportunities



What is ELECTRONICS: $H_{ardware} + F_{irmware} + S_{oftware}$

embedded systems, intelligent machines, communication networks ...
smart-, autonomous-, wearable- products and systems
for **real world** and beyond **virtual-, augmented-, mixed-** reality
for **humans and robots**





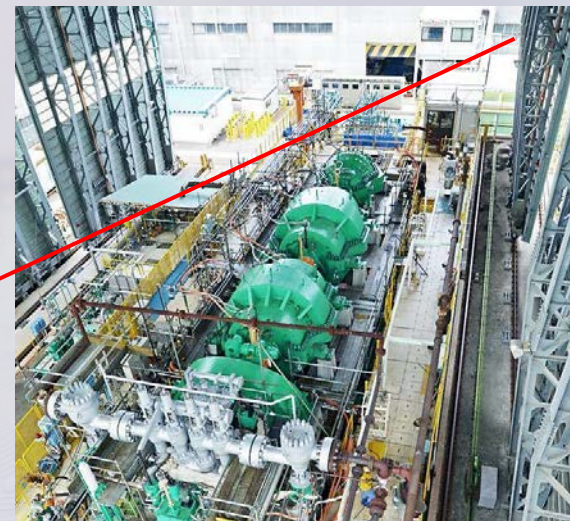
ELECTRONICS is not ELECTRICAL engineering

~~production, transmission,
distribution of electric energy~~



~~wide-area power-grid~~

~~heavy industry~~

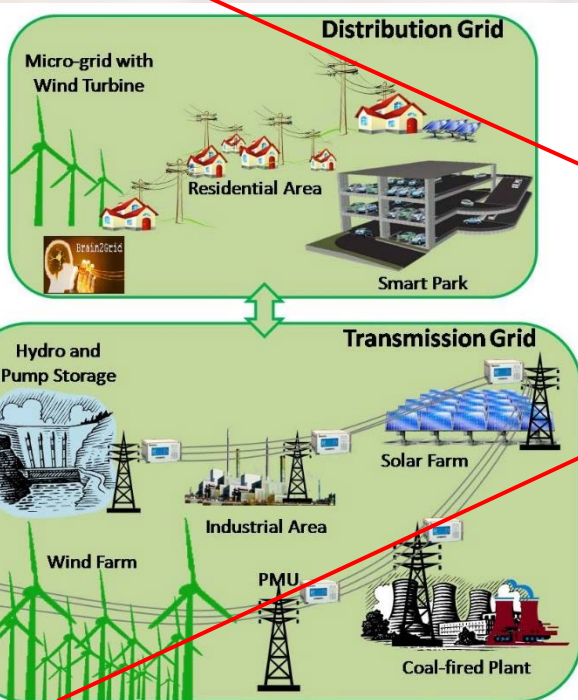


~~electrical machines~~

~~e-vehicles~~



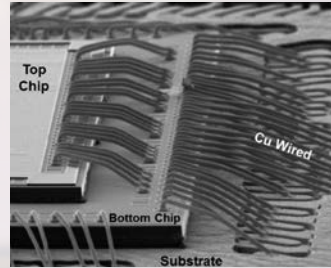
~~electric traction~~



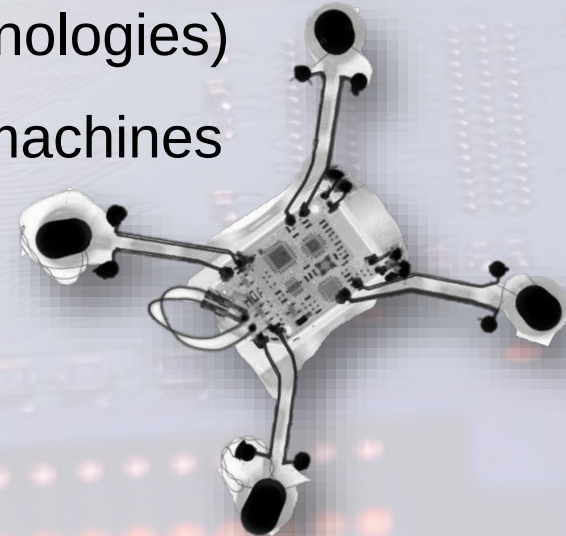


ELECTRONICS is not ELECTRICAL engineering

ELECTRONICS is:



- **low-voltage** (<380 V), **low-current** (<10 A), **low-power** (<1 kW)
- for **ICT** (Information and Communication Technologies)
- for "smart" (instead of powerful) devices and machines
- for **wearable / implantable** devices
- for **personal health / wealth**





1. what is ELECTRONICS (not ELECTRICAL eng.)
2. POLIMI and **DEIB** (Dept. of ELN+INF+TLC+BIO+ATM)
3. Laurea Magistrale / Master of Science in Electronics Eng.
4. contacts and channels
5. expertise, skills, employment opportunities



1.300 professors and researchers
1.200 technicians and administration
42.000 students

4 Schools:

- Architecture, Urban and Building Eng.;
- Design;
- Civil engineering, Environment and Territory;
- **Industrial and Information engineering**

12 Departments:

- ... **DEIB** ...

7 Campuses:

- ... **"MI Leonardo"** ...



Logo: "School of Athens"
painting by Raffaello, at
Pinacoteca Ambrosiana, Milano

Ranking:

#1 Italy, **#6** Europe, **#16** world

(in «Engineering & Technology», QS World University Ranking 2019)



Teaching

(61 Study Programmes)

SCUOLA	LT	LS	CU	Totale
ARCHITETTURA URBANISTICA INGEGNERIA DELLE COSTRUZIONI	3	9	1	13
SCUOLA DESIGN	4	6		10
SCUOLA INGEGNERIA CIVILE AMBIENTALE E TERRITORIALE	3	4		7
SCUOLA INGEGNERIA INDUSTRIALE E DELL'INFORMAZIONE	14	17		31
Totale	24	36	1	61

Research

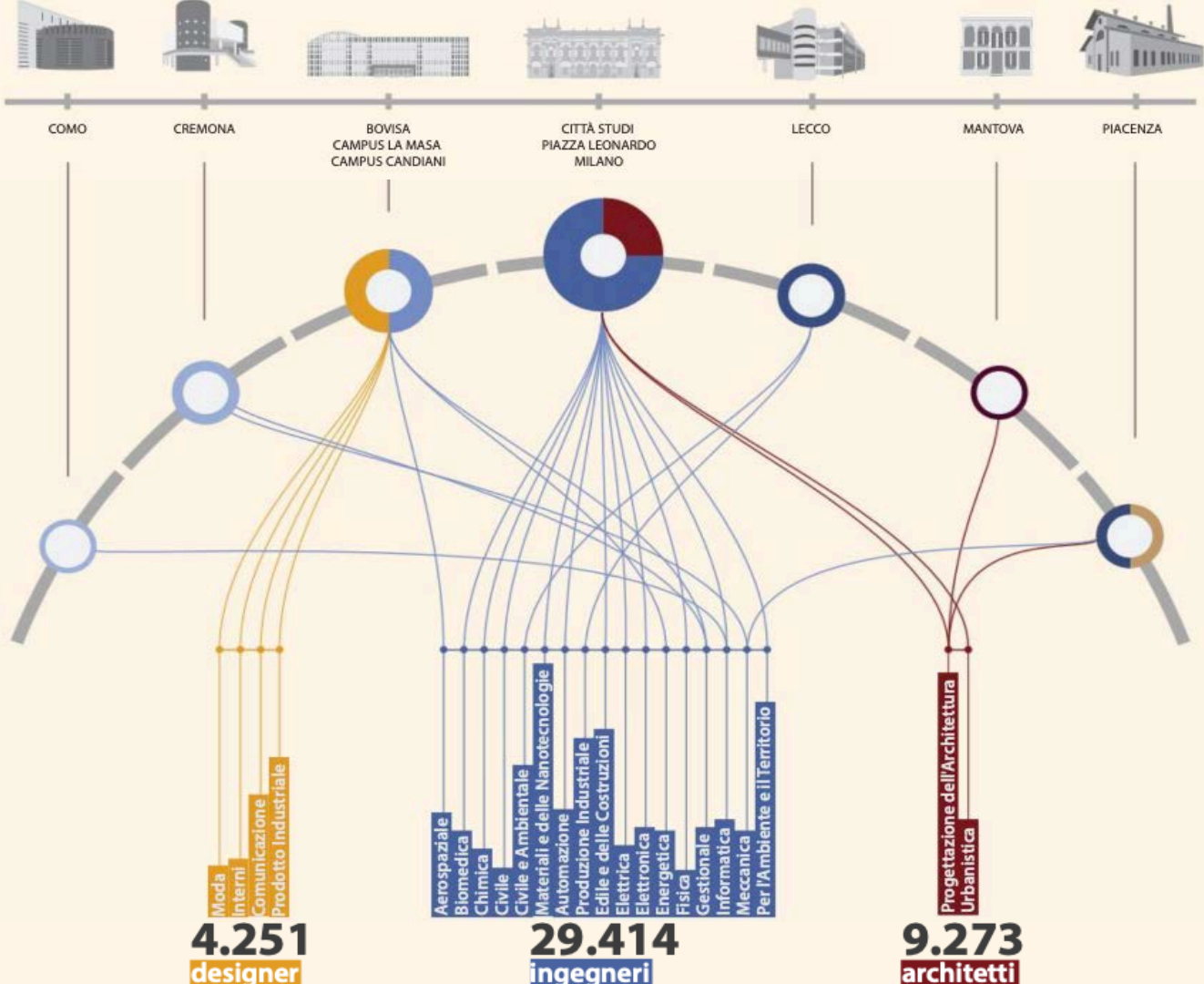
(12 Departments)

- DIPARTIMENTO DI ARCHITETTURA E STUDI URBANI (DASTU)
- DIPARTIMENTO DI ARCHITETTURA, INGEGNERIA DELLE COSTRUZIONI E AMBIENTE COSTRUITO (DABC)
- DIPARTIMENTO DI CHIMICA, MATERIALI E INGEGNERIA CHIMICA "GIULIO NATTA" (DCMC)
- DIPARTIMENTO DI DESIGN (DESIGN)
- DIPARTIMENTO DI ELETTRONICA, INFORMAZIONE E BIOINGEGNERIA (DEIB)
- DIPARTIMENTO DI ENERGIA (DENG)
- DIPARTIMENTO DI FISICA (DFIS)
- DIPARTIMENTO DI INGEGNERIA CIVILE E AMBIENTALE (DICA)
- DIPARTIMENTO DI INGEGNERIA GESTIONALE (DIG)
- DIPARTIMENTO DI MATEMATICA (DMAT)
- DIPARTIMENTO DI MECCANICA (DMEC)
- DIPARTIMENTO DI SCIENZE E TECNOLOGIE AEROSPAZIALI (DAER)



POLITECNICO
MILANO 1863

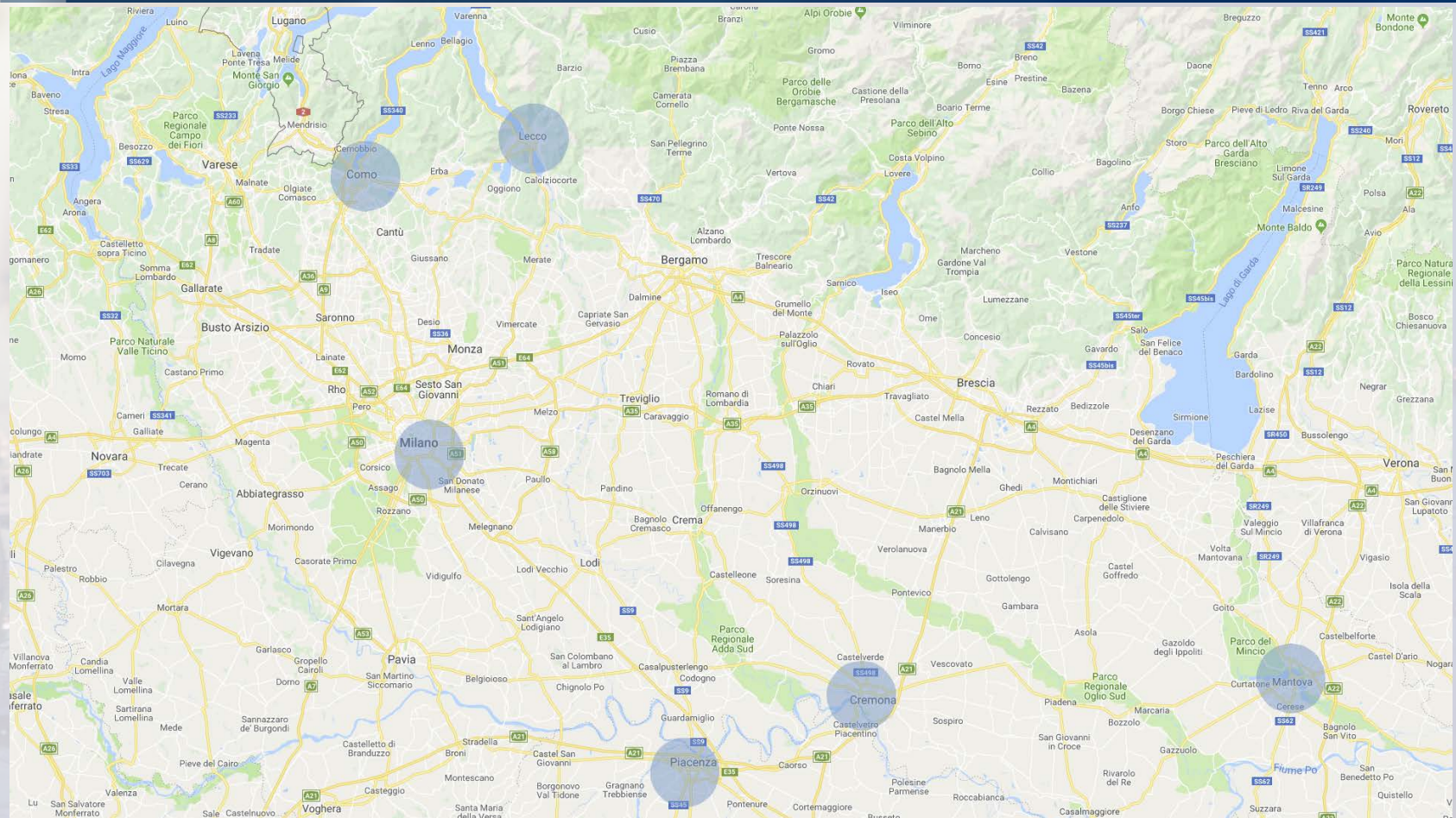
Campuses





Campuses

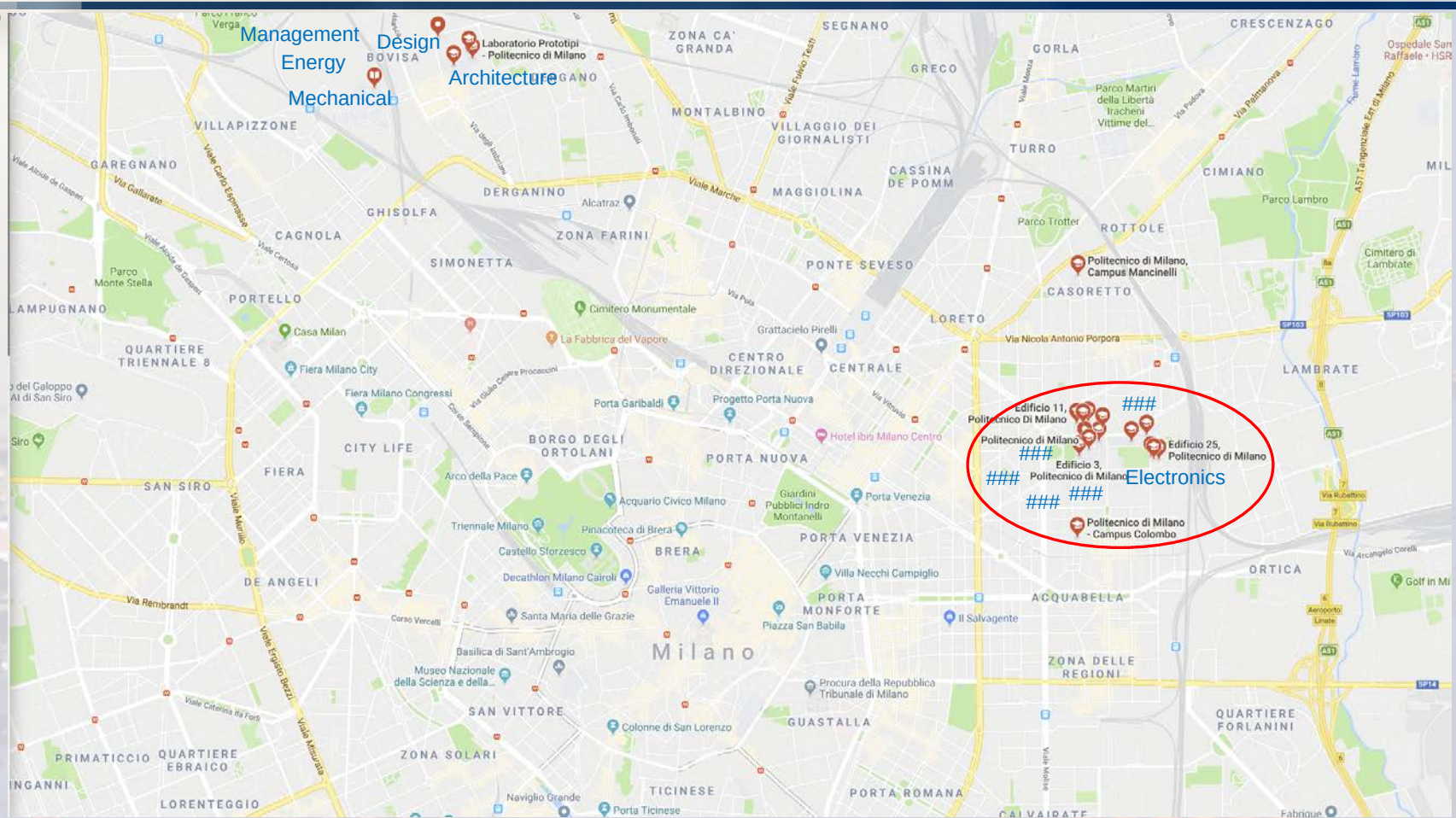
POLITECNICO
MILANO 1863





POLITECNICO
MILANO 1863

Two campuses in Milano ("Leonardo" e "Bovisa")





MM2

S9



Dept. Electronics, Information science, Bioengineering

Giuriati

ELECTRONICS

POLI-FAB



Students' email: name.surname@mail.polimi.it

Staff's email: name.surname@polimi.it

POLIMI phone numbers: **(02-2399) xxxx**

Admission to LM ELN: prof. **Christian Monzio Compagnoni** (international students)

Study Plans: prof.ssa **Chiara Guazzoni** (LM ELN)

In/Out transfer in/out: prof. **Daniele Ielmini** (L ELN e LM ELN)



1. what is ELECTRONICS (not ELECTRICAL eng.)
2. POLIMI and DEIB (Dept. of ELECTRONIC+LTC+BIO+ATM)
3. **L**aura **M**agistrale / **M**aster of **S**cience in **E**lectronics **E**ng.
4. contacts and channels
5. expertise, skills, employment opportunities



Ph.D.

Philosophie Doctorate



"M.S.E.E. degree"

from International Master Degree's graduate

M.S.E.E.

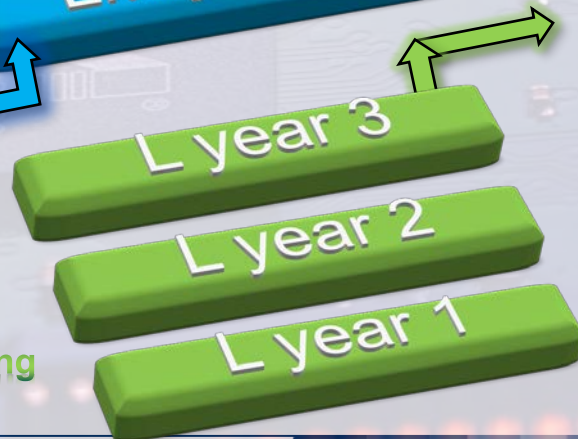
Master of Science in Electronics Engineering



from International Bachelor Degree's undergraduate

B.S.E.E.

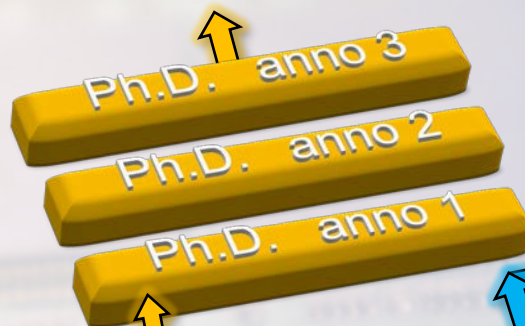
Bachelor of Science In Electronics Engineering



"B.S.E.E." degree



Dottorato di Ricerca



**"Laurea Magistrale"
e lavoro o R&D**

immissioni da altri Atenei e Internazionali

Laurea Magistrale



immissioni da altri Atenei e Internazionali

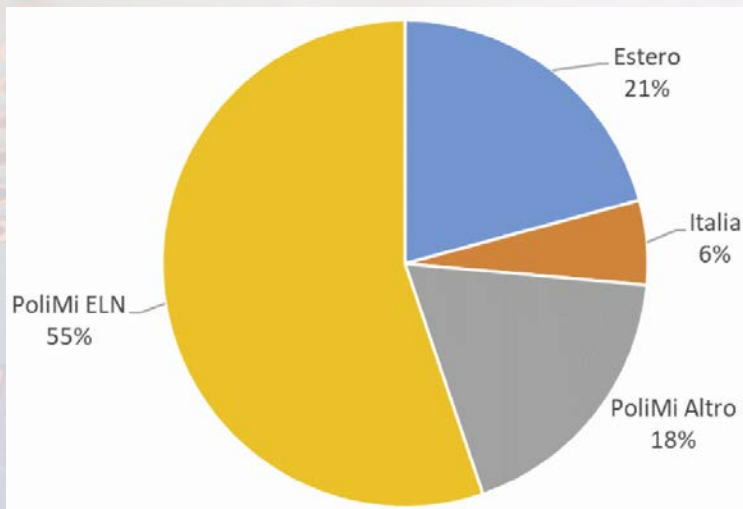
**"Laurea"
e lavoro**

Laurea

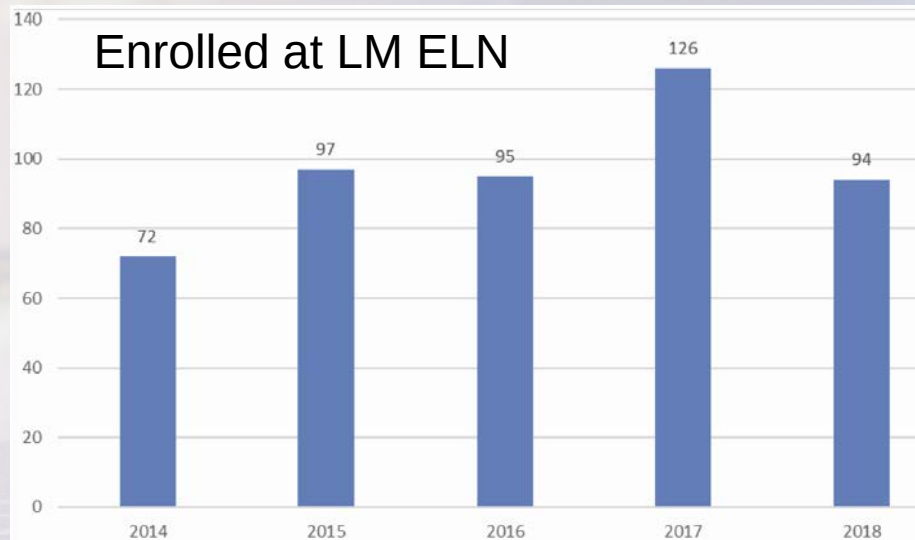




Origin from L / B.S.



Enrolled at LM ELN





Only one track

(PSS – ELECTRONICS ENGINEERING)

Examples of paths:

- advanced electronic **systems**
- **devices** for photonics, biochips, nanotechnologies
- microelectronic **integrated circuits**
- electronics for **medicine and biotechnology**

School of Industrial and Information Engineering
Electronics Engineering (Milano Leonardo) - 2019/2020

10 credits in electives;
20 credits for the Master Thesis; one credit out of 20 is specifically meant for the selection of additional language skills.

7.2. Mode of study

The course is full-time; it includes attendance to lectures, exercise classes and laboratory activities, as well as personal study.
The entire course is taught in English, with only a few electives taught in Italian.

7.3. Detailed learning objectives

1 Year courses - Track: PSS - ELECTRONICS ENGINEERING

The Study Plan of the LM ELN provides a single course programme, with courses mostly in English and possibly with some courses taught in Italian. The organization of the Study Plan was deliberately kept extremely straightforward, to favour as possible choices among electives and to offer maximum freedom in the choice of a personalized Study Plan, open to the interests and attitudes of each student.

In the first year of the LM ELN there are some courses considered solid and automatically approved.
In the first year of the LM ELN there are some courses considered solid and automatically approved. In the first year of the LM ELN there are some courses considered solid and automatically approved. In the first year of the LM ELN there are some courses considered solid and automatically approved.

Advanced Electronic Systems Design - The student who has interests in the application of electronic technologies for health, medicine and biotechnology finds a dedicated offer in the courses of "Electronics Design for Biomedical Instrumentation", "Biochip", "Semiconductor Radiation Detectors", "Digital Electronic System Design", "Biogenetica Cellulare" and others.

Electronics for Medicine and Biotechnology - The student who has interests in the application of electronic technologies for health, medicine and biotechnology finds a dedicated offer in the courses of "Electronics Design for Biomedical Instrumentation", "Biochip", "Semiconductor Radiation Detectors", "Digital Electronic System Design", "Biogenetica Cellulare" and others.

Design of microelectronic systems - The student who has interests in the application of electronic technologies for health, medicine and biotechnology finds a dedicated offer in the courses of "Electronics Design for Biomedical Instrumentation", "Biochip", "Semiconductor Radiation Detectors", "Digital Electronic System Design", "Biogenetica Cellulare" and others.

Design of microelectronic systems

Data: 23/Mar/2019

School of Industrial and Information Engineering
Electronics Engineering (Milano Leonardo) - 2019/2020

The student interested in the design of electronic devices for digital and analog electronics, "Electronics Design for Biomedical Instrumentation", "Biochip", "Semiconductor Radiation Detectors", "Digital Electronic System Design", "Biogenetica Cellulare" and others.

Microelectronic Integrated Circuits Design - Students interested in the design of integrated circuits and System-on-Chips of increasing complexity find a dedicated offer, for example, in the courses like "Digital Integrated Circuit Design", "RF Circuit Design", "Power Electronics", "Mixed-Signal Circuit Design", "Embedded Systems", "Advanced Circuit Theory" and others.

Electronics for Medicine and Biotechnology - The student who has interests in the application of electronic technologies for health, medicine and biotechnology finds a dedicated offer in the courses of "Electronics Design for Biomedical Instrumentation", "Biochip", "Semiconductor Radiation Detectors", "Digital Electronic System Design", "Biogenetica Cellulare" and others.

Design of microelectronic systems - The student who has interests in the application of electronic technologies for health, medicine and biotechnology finds a dedicated offer in the courses of "Electronics Design for Biomedical Instrumentation", "Biochip", "Semiconductor Radiation Detectors", "Digital Electronic System Design", "Biogenetica Cellulare" and others.

Design of microelectronic systems

Data: 23/Mar/2019



POLITECNICO
MILANO 1863

LM ELN / M.S.E.E. courses

in English 

100 cfu total in about 12 courses
(25 cfu of choices)

20 cfu of experimental thesis
(at POLIMI labs or internship)

	tipologia	Nome Insegnamento	Sem	CFU	di cui di D.I.	CFU Gruppo
1° anno LM ELN	caratterizzante	ANALOG CIRCUIT DESIGN	1	10	1	10
	caratterizzante	ELECTRONIC SYSTEMS	1	10		10
	caratterizzante	ELECTRON DEVICES	1	10		10
	caratterizzante	MEMS AND MICROSENSORS	1	10		10
	caratterizzante	SIGNAL RECOVERY	2	10		10
	caratterizzante	DIGITAL INTEGRATED CIRCUIT DESIGN	2	10		10
	caratterizzante	RF CIRCUIT DESIGN	2	10		10
	caratterizzante	DIGITAL ELECTRONIC SYSTEMS DESIGN	2	5	3	5
	caratterizzante	MICROELECTRONIC TECHNOLOGIES	2	5	1	5
	affine	<i>Insegnamenti a scelta dal Gruppo TAB1</i>	--	--		5
2° anno LM ELN	caratterizzante	MIXED-SIGNAL CIRCUIT DESIGN	1	10		10
	caratterizzante	POWER ELECTRONICS	1	10		10
	affine	<i>Insegnamenti a scelta dal Gruppo TAB1</i>	--	--		10
	caratterizzante	BIOCHIP	2	5	2	5
	caratterizzante	SEMICONDUCTOR RADIATION DETECTORS	2	5		10
	caratterizzante	ELECTRONICS DESIGN FOR BIOMEDICAL INSTRUM.	2	10		10
	affine	<i>Insegnamenti a scelta dal Gruppo TAB1 o TAB2</i>	--	--		10
				THESIS AND FINAL EXAM		20



POLITECNICO
MILANO 1863

LM ELN / M.S.E.E. elective courses (your own choice)

Insegnamenti del Gruppo TAB1

SSD	Denominazione Insegnamento	Sem	CFU	di cui di D.I.
FIS/03	PHYSICS OF PHOTOVOLTAIC PROCESSES	1	5	
FIS/03	ADVANCED OPTICS AND LASERS	1	10	
FIS/03	QUANTUM OPTICS AND INFORMATION	2	5	
FIS/03	SOLID STATE PHYSICS A	2	5	
ING-IND/31	ADVANCED CIRCUIT THEORY	2	5	
ING-INF/03	DIGITAL COMMUNICATION	1	10	1
ING-INF/03	ADVANCED DIGITAL SIGNAL PROCESSING	1	10	1
ING-INF/03	RADAR IMAGING	1	5	
ING-INF/03	QUANTUM COMMUNICATIONS	2	5	
ING-INF/04	CONTROL OF INDUSTRIAL ROBOTS	1	5	
ING-INF/04	MODEL IDENTIFICATION AND DATA ANALYSIS	1	10	
ING-INF/04	AUTOMATION AND CONTROL IN VEHICLES	2	5	
ING-INF/04	ADVANCED AND MULTIVARIABLE CONTROL	2	10	
ING-INF/05	EMBEDDED SYSTEMS	1	10	
ING-INF/05	DIGITAL SYSTEMS DESIGN METHODOLOGIES	2	10	
ING-INF/05	ADVANCED COMPUTER ARCHITECTURES	2	5	
ING-IND/34	BIOMATERIALI [C.I.]	2	10	
ING-IND/34	BIOINGEGNERIA CELLULARE	1	10	
ING-INF/06	BIOINGEGNERIA DEL SISTEMA MOTORIO	1	5	
BIO/10	BIOINFORMATICA E GENOMICA FUNZIONALE	1	5	
MAT/08	NUMERICAL METHODS IN MICROELECTRONICS	2	5	

Insegnamenti del Gruppo TAB2

SSD	Denominazione Insegnamento	Sem	CFU	di cui di D.I.
caratterizzante	BIOCHIP	2	5	2
caratterizzante	DIGITAL ELECTRONIC SYSTEMS DESIGN	2	5	
caratterizzante	DIGITAL INTEGRATED CIRCUIT DESIGN	2	10	
caratterizzante	ELECTRON DEVICES	1	10	
caratterizzante	ELECTRONICS AND ELECTROACOUSTIC FOR SOUND ENG.	2	10	
caratterizzante	ELECTRONICS DESIGN FOR BIOMEDICAL INSTRUM.	2	10	
caratterizzante	MEMS AND MICROSENSORS	1	10	
caratterizzante	MICROELECTRONIC TECHNOLOGIES	2	5	1
caratterizzante	MIXED-SIGNAL CIRCUIT DESIGN	1	10	
caratterizzante	POWER ELECTRONICS	1	10	
caratterizzante	RF CIRCUIT DESIGN	2	10	
caratterizzante	SEMICONDUCTOR RADIATION DETECTORS	2	5	
caratterizzante	SENSOR SYSTEMS	1	5	3
caratterizzante	ANTENNAS	2	5	
caratterizzante	ELECTROMAGNETIC COMPATIBILITY	1	5	
caratterizzante	MICROWAVE ENGINEERING	2	5	
caratterizzante	PHOTONIC DEVICES	2	10	
caratterizzante	RF SYSTEMS	1	10	
caratterizzante	OPTICAL MEASUREMENTS	1	5	

- proposed choices, among many others



Example of weekly timetable

Data	Dove	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00
Lunedì	D.1.2						[lezione] ANALOG CIRCUIT DESIGN (dal 17/09/2018 al 17/12/2018)						
	E.G.6	[lezione] CONTROL OF INDUSTRIAL ROBOTS (dal 17/09/2018 al 17/12/2018)											
Martedì	D.0.4			[lezione] ELECTRONIC SYSTEMS (dal 09/10/2018 al 18/12/2018)									
	S.1.3							[lezione] MEMS AND MICROSENSORS (dal 18/09/2018 al 18/12/2018)					
	E.G.8							[esercitazione] MEMS AND MICROSENSORS (dal 09/10/2018 al 11/12/2018)					
	D.0.4	[lezione] MEMS AND MICROSENSORS (dal 09/10/2018 al 18/12/2018)											
Mercoledì	D.1.2			[lezione] ANALOG CIRCUIT DESIGN (dal 19/09/2018 al 19/12/2018)									
	N.1.2							[lezione] MEMS AND MICROSENSORS (dal 19/09/2018 al 19/12/2018)					
	D.1.2	[lezione] CONTROL OF INDUSTRIAL ROBOTS (dal 19/09/2018 al 19/12/2018)											
Giovedì	E.G.2	[esercitazione] ANALOG CIRCUIT DESIGN (dal 20/09/2018 al 20/12/2018)											
	E.G.4			[lezione] ELECTRONIC SYSTEMS (dal 20/09/2018 al 20/12/2018)									
	E.G.1							[lezione] MEMS AND MICROSENSORS (dal 20/09/2018 al 20/12/2018)					
Venerdì	L.26.14							[lezione] ANALOG CIRCUIT DESIGN (dal 21/09/2018 al 21/12/2018)					
	D.1.1	[lezione] ANALOG CIRCUIT DESIGN (dal 21/09/2018 al 21/12/2018)		[lezione] ELECTRONIC SYSTEMS (dal 21/09/2018 al 21/12/2018)									
Sabato													

Insegnamenti selezionati		Denominazione Insegnamento		Docente	Cfu	Anno corso	Semestre	Data inizio	Data fine	Rimuovi
Visualizza	Legenda	Ing. Ind-Inf (Mag.) (ord. 270) - MI (476) Electronics Engineering - Ingegneria Elettronica								
☒		052427 - ANALOG CIRCUIT DESIGN		Lacaita Andrea Leonardo	10.00	--	1	17/09/2018	21/12/2018	
☒		088724 - ELECTRONIC SYSTEMS		Zappa Franco	10.00	--	1	20/09/2018	21/12/2018	
☒		095162 - MEMS AND MICROSENSORS		Langfelder Giacomo	10.00	--	1	18/09/2018	20/12/2018	
☒		090914 - CONTROL OF INDUSTRIAL ROBOTS		Rocco Paolo	5.00	--	1	17/09/2018	19/12/2018	
Aggiorna										

- about 24 h of
- about 3 h of
- some free time for

LESSONS and EXERCISE CLASSES
LABS
lunch, relax, study, enjoy



Semestre	I sem				II sem				III sem				IV sem				V sem				VI sem							
	Set	Ott	Nov	Dic	Gen	Feb	Mar	Apr	Mag	Giu	Lug	Ago	Set	Ott	Nov	Dic	Gen	Feb	Mar	Apr	Mag	Giu	Lug	Ago	Set	Ott	Nov	Dic
Lauree A.A.																												
	2019				-2020				2020				-2021				2021				-2022							
Esami					2						2	2		1	1			2	2				2	2		2	2	

Welcome day in ELECTRONICS ENG.



1. what is ELECTRONICS (not ELECTRICAL eng.)
2. POLIMI and **DEIB** (Dept. of **ELN+INF+TLC+BIO+ATM**)
3. **Laurea Magistrale / Master of Science in Electronics Eng.**
4. contacts and channels
5. expertize, skills, employment opportunities



POLITECNICO
MILANO 1863

ELECTRONICS website:

www.elettronica.polimi.it

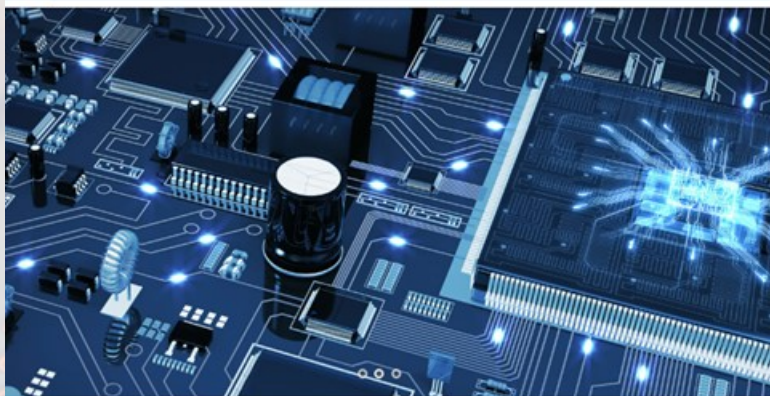
POLITECNICO MILANO 1863

USEFUL LINKS PRIVACY  

SCUOLA DI INGEGNERIA INDUSTRIALE E DELL'INFORMAZIONE

Corso di Ingegneria Elettronica

HOME PROGRAM PROSPECTIVE STUDENTS ENROLLED STUDENTS JOBS CONTACTS PROFESSORS RESEARCH



The Study Programme in Electronics Engineering prepares students to design, use, innovate, and deploy electron devices, circuits and systems and to guide the evolution of technology and innovation, with competence and professionalism.

The **Laurea** degree in "Ingegneria Elettronica" (B.S.E.E.) aims at training professionals with solid scientific and technologic know-how, combining physical-chemical-mathematical fundamentals of the most advanced technologies with the engineering capacity to conceive and develop products and electronic systems, exploitable in the most diversified areas of society, often opening up new markets and scenarios.

The **Laurea Magistrale** degree in Electronics Engineering (M.S.E.E.) aims at fostering the skills acquired during the Laurea courses, and to further expand engineering knowledge and excellence in electronics. Examples are integrated electronic and analog design capabilities, complex products design and system integration (sensor and transducer systems, analog/digital conversion, processing and programming, power management), and expertise on CAD design and software tools.

The Electronics Engineer will be capable to promote the exploitation of Electronics in every sector of society that can benefit by "smart" embedded systems, and will carry out professional activities in research centers, companies, laboratories, start-ups, in any scientific and technologic field.

Docenti



Alberto Tosi

Alberto Tosi received the master's degree (summa cum laude) in electronics engineering and the Ph.D. degree (summa cum laude) in information technology engineering from the Politecnico di Milano, Italy, in 2003 and 2005, respectively. He was an Assistant Professor from 2004 to 2006. He has been an Associate Professor of Electronics with Politecnico di Milano since 2014. He currently works on jitter and JitterCatcher single channel autonomous device (SPADs).

He is currently working on the design and development of novel JitterCatcher.



Alessandro S. Spinelli

Alessandro S. Spinelli was born in Bergamo, Italy, in 1965. He received the Laurea (summa cum laude) and Ph.D. degrees in electronics engineering from the Politecnico di Milano, Milano, Italy, in 1988. He was a Visiting Scholar with the University of Tennessee Space Institute, Tullahoma, TN, where he worked as a graduate research assistant in photonics, and in 1990, he worked as a consultant with the Central Department of Research and Development, ETRONTECHNICS, Agropoli, Campania, Italy.

He became Assistant Professor with the INSETECH di Milano in 1991 and was with the university until 2004.



Alessio Gambetta

Alessio Gambetta received the Laurea (summa cum laude) and Ph.D. degrees in Electronics Engineering from the Politecnico di Milano, Milano, Italy, in 2003 and 2005, respectively. He was an Assistant Professor from 2004 to 2006. He has been an Associate Professor of Electronics with Politecnico di Milano since 2014. He currently works on jitter and JitterCatcher single channel autonomous device (SPADs).

He is currently working on the design and development of novel JitterCatcher.



Andrea Bonfanti

He is currently working on the design and development of novel JitterCatcher.



Andrea Castoldi

He is currently working on the design and development of novel JitterCatcher.



Andrea Crespi

He is currently working on the design and development of novel JitterCatcher.



Coordinator of ELN (B.S. and M.S.) Study Programmes

prof. Franco ZAPPA

franco.zappa@polimi.it

Student Representatives inside the "Consiglio di Corso di Studi" CCS:

Alberto BADILINI

alberto.badilini@mail.polimi.it

@albertobadilini



Alessandro DI GIOVINE

alessandromichele.digiovine@mail.polimi.it

Francesco FAILLACE

francesco.faillace@mail.polimi.it

@francescofaillace



Giacomo TOMBOLAN

giacomo.tombolan@mail.polimi.it

@giacotombolan





ELECTRONICS contact persons

Incarico	attività	persona	interno
Coordinatore del CCS ELN		Franco ZAPPA	6149
Segretario del CCS ELN	revisioni verbali CCS ELN	Salvatore LEVANTINO	3731
Referente Assicurazione Qualità	valuta AQ, risultati vs. obiettivi, col Presidio AVA	Marco SAMPIETRO	6188
Tutorati di Facoltà	gestisce proposte, verifica qualità tutorati	Franco ZAPPA	6149
Tirocini curriculari L	accetta proposte aziendali e ne verifica la qualità	Franco ZAPPA	6149
Ammissione LM	studenti italiani	Massimo GHIONI	4003
	studenti italiani	Salvatore LEVANTINO	3731
	studenti INTERNAZIONALI	Christian MONZIO COMPAGNONI	4038
Trasferimenti nella L	da altre L, "abbreviazioni" internazionali, decaduti	Daniele IELMINI	6120
Mobilità internazionale in uscita	studenti POLIMI verso altri atenei	Marco SAMPIETRO	6188
	in ingresso: studenti internazionali, Erasmus e doppia laurea	Christian MONZIO COMPAGNONI	4038
Orario lezioni	L anno 2 e 3 (prof.ssa Epifani per anno 1)	Giorgio FERRARI	4008
	LM anno 1 e 2	Carlo SAMORI	4035
Piano degli Studi	L per la L ELN di primo livello	Dario NATALI	3766
	LM per la LM ELN di secondo livello	Chiara GUAZZONI	6147
Segretario Lauree CCS ELN		Alessandro SOTTOCORNOLA SPINELLI	4001
Open Day	organizzare stand e materiale "Open Day",	Giacomo LANGFELDER	3425
	"Meet me Tonight" ed altri eventi pubblici	Marco CARMINATI	6102
Sito web di CCS	nuova versione e mantenimento	Ivan RECH	3700
Advisory Board	incontri e tavole rotonde col mondo del lavoro per	Franco ZAPPA	6149
	monitorare adeguatezza e qualità della L ELN e	Giacomo LANGFELDER	3425
	LM ELN con le effettive richieste del mercato	Dario NATALI	3766
Didattica Innovativa	valutare e proporre attivazione di nuove forme	Marco CARMINATI	6102
	didattiche e laboratoriali, proattive ed efficaci	FerERICA VILLA	3490
Honours Program	gestire percorso di eccellenza	Dario NATALI	3766



POLITECNICO
MILANO 1863

"BEEP" channel for info on courses: <https://beep.metid.polimi.it/>

Tool to get info, teaching material, slides, written tests, of courses:

The screenshot shows the Beep channel website interface. At the top left is the Beep logo, which consists of the word "Beep" in a stylized font with colorful dots and lines around it. Below the logo is the Politecnico Milano 1863 logo. To the right of the logo are two buttons: "LOGIN" in blue and "BROCHURE" in pink. Below these buttons is a text block that says: "Have you forgotten your Person Code or password? To recover or create your credentials visit the: [Online Services page](#)". Below this text is a link "Beep Channel" with three colored dots (blue, green, red). The main content area features a large image of a group of students gathered around a laptop, with a circular video player overlay showing a "VIDEO TOUR (3 min.)". Below this image are four smaller cards, each with a play button icon and a title: "How to access Beep", "Are you a student?", "Are you a professor and this is your first time in Beep?", and "Beep Channel".

Beep

POLITECNICO MILANO 1863

[LOGIN](#) [BROCHURE](#)

Have you forgotten your Person Code or password?
To recover or create your credentials visit the: [Online Services page](#)

[Beep Channel](#)

VIDEO TOUR
(3 min.)

How to access Beep

Are you a student?

Are you a professor and this is your first time in Beep?

Beep Channel



POLITECNICO
MILANO 1863

New tool to enable students to communicate with Coordinator and Representatives for proposals, comments, advices about L and LM ELN

Electronics Engineering
Ingegneria Elettronica

CCS - Ingegneria Elettronica - Electronics Engineering > Forum Private personal area

Home Documents **FORUM** Representative

Forum

Message Boards Home Recent Posts My Posts Drafts My Subscriptions Statistics

Add Topic

Topics

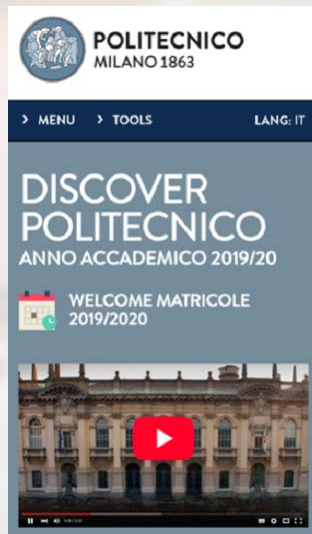
- BENVENUTI alla LAUREA in ING. ELETTRONICA (L ELN)**
Benvenuta/o alla "Laurea" in Ingegneria Elettronica" (L ELN), equivalente al B.S.E.E.I Come Coordinatore del Corso di Studi in Elettronica, spero che tu contribuirai ad alimentare discussioni costruttive su cosa e come migliorare nel CdS. Threads: 0 Posts: 0
- EXAMS and EVALUATIONS**
Any feeling or info to share with your classmates about on-going exams? Threads: 0 Posts: 0
- WELCOME to the M.S.E.E. (LM ELN)**
Forum welcome you all, attending the "Laurea Magistrale" in "Electronics Engineering" (LM ELN), equivalent to the M.S.E.E.I As Coordinator/Chair of the Study Programme in Electronics I hope you can contribute to fruitful discussions on what and how to improve. Threads: 0 Posts: 0



POLITECNICO
MILANO 1863

Comunicazioni e Strumenti (2/2)

APP DISCOVER POLIMI:
to discover all services



APP POLIMI:
to search lesson timetables,
to manage the Study Plan,
to book an appointment with Secretaries



Fortnight newsletter **Politamtam** www.politamtam.polimi.it
to be informed on events, activities, student associations
and opportunities for students



Canali social istituzionali:
www.facebook.com/polimi
www.youtube.com/polimi
www.instagram.com/polimi
www.twitter.com/polimi
www.linkedin.com/school/polimi
www.polimi.it/itunes

SOCIAL



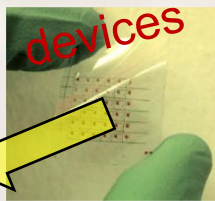
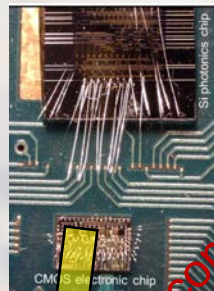


1. what is ELECTRONICS (not ELECTRICAL eng.)
2. POLIMI and **DEIB** (Dept. of ELECTRONIC+TLC+BIO+ATM)
3. Laurea Magistrale / Master of Science in **Electronics Eng.**
4. contacts and channels
5. expertize, skills, employment opportunities

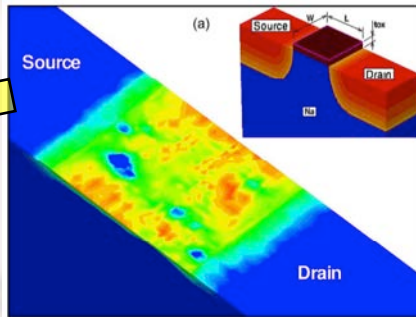


POLITECNICO
MILANO 1863

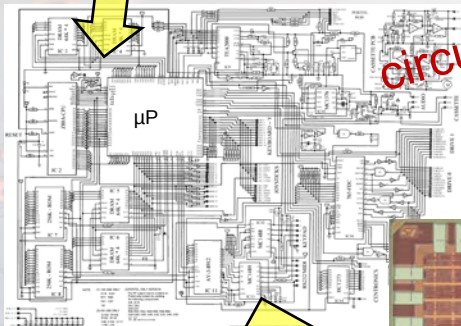
R&D in ELECTRONICS @ polimi



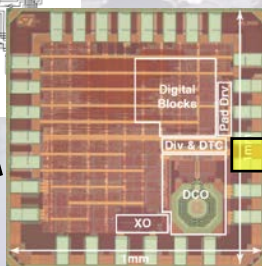
components



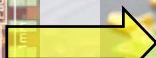
physics - chemistry - math



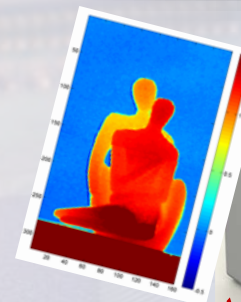
circuits



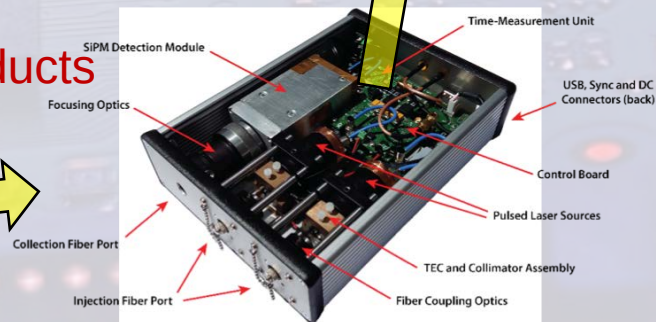
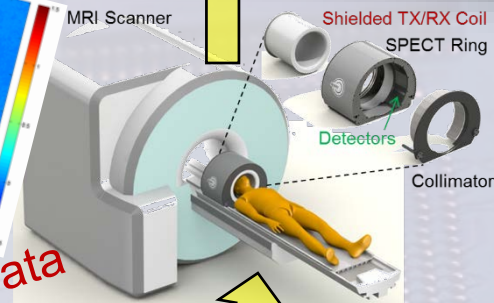
prototypes



products



apparata





- **spot** what to solve and how
- **define** specs, requirements, constraints, costs, pros/cons
- **select** design methodologies and technologies
- **design** electron devices
- **develop** integrated circuits, electronic boards, mixed systems
- **exploit** sensors, actuators, μ P, FPGA, DSP, ... at best
- **integrate** electronics into applications (atm, bio, ene, mec, inf, tlc ...)
- **validate** through instrumentation
- **manage** "ilities" in plants and systems (reliability, manufacturability, testability ...)
- **profit**



- **microelectronics** for semiconductors / integrated circuits
- **high-tech industries** (mechatronics, avionics, energy, automotive, space...)
- **companies** for smart electronics (infotainment, telecomm, computers...)
- **industrial automation** and **robotics** for manufacturing
- **infrastructures** for communications / networks / cloud / grid
- **R&D** genetics / pharmacology / medicine
- **start-up & spin-off** companies
- **consultancy** and **entrepreneurship**
- **public/private scientific/technological organizations**
- **... Ph.D.**



POLITECNICO
MILANO 1863

POLIMI ranking for ELECTRONICS



Engineering - Electrical & Electronic

Engineering - Electric...

Read more about [Electrical Engineering Degrees](#)

# RANK	UNIVERSITY	LOCATION
2019	University search	By location
1	Massachusetts Institute of Technology (MIT)	United States
2	Stanford University	United States
3	ETH Zurich - Swiss Federal Institute of Technology	Switzerland
4	University of California, Berkeley (UCB)	United States
5	University of Cambridge	United Kingdom
6	Nanyang Technological University, Singapore (NTU)	Singapore
=7	Harvard University	United States
=7	Imperial College London	United Kingdom

=9	EPFL - Ecole Polytechnique Fédérale de Lausanne	Switzerland
=9	National University of Singapore (NUS)	Singapore
11	University of Oxford	United Kingdom
12	Tsinghua University	China
13	University of California, Los Angeles (UCLA)	United States
14	Georgia Institute of Technology	United States
15	California Institute of Technology (Caltech)	United States
16	Carnegie Mellon University	United States
17	The University of Tokyo	Japan
18	University of Toronto	Canada
19	KTH Royal Institute of Technology	Sweden
=20	KAIST - Korea Advanced Institute of Science & Technology	South Korea

University search:

Study Level

Subject of interest

Study destination

=20		Technical University of Munich	More	Germany
22		The Hong Kong University of Science and Technology	More	Hong Kong
23		Politecnico di Milano	More	Italy
24		Delft University of Technology	More	Netherlands
25		University of Illinois at Urbana-Champaign	More	United States
26		Peking University	More	China
27		Seoul National University	More	South Korea
28		Shanghai Jiao Tong University	More	China
29		University of Texas at Austin	More	United States
=30		Princeton University	More	United States



POLITECNICO
MILANO 1863

Employment rates of LM ELN al POLIMI



POLITECNICO
MILANO 1863

English

CareerService



News & Tools

Info stage

Offerte di lavoro e stage

Aziende

Candidati

Incontri con le aziende

Registra Azienda

Login

INGEGNERIA ELETTRONICA

Indagine Occupazionale 2018 - Laureati Magistrali

L'indagine si rivolge ai laureati magistrali a 12 mesi dal conseguimento del titolo.

Il totale dei laureati magistrali in Ingegneria Elettronica presso il Politecnico di Milano nel 2016 risulta essere 84 per la sede di Milano. Numero degli intervistati: 58. Tasso di copertura: 69%.



occupati

94,6%



in quanto tempo

90,3%

Entro 6 mesi*

9,7%

7-12 mesi



retribuzione mensile netta

€ 1.647

* inclusi i laureati che hanno trovato un impiego contestualmente alla laurea



dove lavorano



Italia **88,6%**

Estero **11,4%**

12,5% italiani che lavorano all'estero
100% stranieri che lavorano in Italia



dimensione aziendale



+500 addetti **37,1%**

50-499 addetti **25,7%**

1-49 addetti **37,2%**



contratti



Tempo indeterminato **60%**

Tempo determinato **8,6%**

Apprendistato **22,8%**

Stage **0%**

Altro **8,6%**

Autonomo **0%**



settori occupazionali (top 5)

Elettronica e Automazione **53,6%**

Consulenza IT **17,9%**

Automotive **14,3%**

Scuola e Università **7,1%**

Aerospaziale ed Aeronautica **7,1%**

CARATTERISTICHE DELLA PROFESSIONE DI INGEGNERE ELETTRONICO A CINQUE ANNI DAL TITOLO



Retribuzione
mensile netta

1.914 €



Utilizzo elevato,
nel lavoro, delle
competenze acquisite
all'università

62,7%

Rapporto 2018

ALMA LAUREA



POLITECNICO
MILANO 1863

The world with NO ENGINEERS and NO ELECTRONICS !

