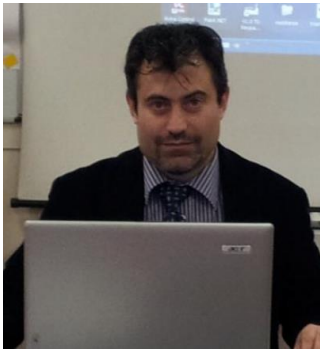## PERSONAL INFORMATION   Marco Gottardo

📍 14, C.Colombo, Vigonovo (VE), 30030, Italy

📞 📱 +393356204892

✉ ad.noctis@gmail.com

🌐 www.gtronic.it

💬 Skype omega399

Sex Male | Date of birth 06/10/1968 | Nationality Italian

JOB APPLIED FOR POSITION PREFERRED JOB STUDIES APPLIED FOR PERSONAL STATEMENT

Lecturer in science or researcher, In the field of automation, robotics, applied physics, space science, plants for alternative energy, innovative electronics.
Teaching support assignments.
Professional trainer or assistant to the university professor.

WORK EXPERIENCE

(from 1995 to today)

Founder and owner at G-Tronic Robotics,

Headquarters Via Cristoforo Colombo n°14, 30030, Vigonovo, (VE)

www.gtronic.it

Business or sector Designer of embedded electronic board and systems for the automation of industrial processes.

(at the same timefrom, 1995 to today)

Professional training teacher and consultant at these companies

1. Enel spa.
2. Tecnoindustrie spa
3. Electrolux spa
4. Alcoa spa
5. Deangelis prodotti spa
6. Leas engineering spa
7. Baxi Ocean spa
8. Mevis spa
9. E.C.I. elettronica srl (amministratore installatore manutentore reti LAN)
10. Viemme srl (macchine automatiche per il tessile)
11. Italsea
12. Vortex Hydra spa
13. Tecnologia Industriale srl
14. Galvo service Padova
15. AB analitica (formazione progettazione strumentazione biomedica)
16. Elektra srl (programmazione microcontrollori PIC per l'uff. Tecnico)
17. Oil & Gas (Noventa Vicentina)
18. Tecnologia Industriale s.r.l. Villorba Treviso.
19. Enron (Polonia) Former in PLC programming
20. Energo s.r.l. Padova
21. Scuola internazionale italo cinese (SIIC dall'anno 2019 all'anno 2023)

(from 2016 to today)

Founder and owner at G-Tronic Robotics, Didactic Division

Padova, Zona industriale, Via Austria 19b, 35127

▪ Frontal teaching and guided experiences in the laboratory
Business or sector professional training, teacher

(from 2017 to today) Accountable on research and development engineer in robotics and automation
Tecnologiaindustriale s.r.l.
LocalitàVillorba, Treviso, Italy

Business or sector consultant for industrial automations

(from 2004 to 2011) Professor of electrical engineering, electronics and automation, in high school.
Scuola superiore dei Salesiani di Schio
Località Schio, Vicenza, Italy

Business or sector Chair professor, frontal and laboratory lessons.

EDUCATION AND TRAINING

dates (2014 - 2017) International PhD in "Nuclear fusion and engineering" cycle XXIX.

University of Padua: Advancend enginnering, course with final exam for PhD career, Italy

- techniques and materials for construction of large toroidal machines for nuclear fusion. ITER.

Instituto Superior Técnico (Lisboa, Portugal): European Fusion Education Network PhD, Advanced Plasma physic and engineering (international doctorate), Fusenet

- design and implementation of diagnostics and data acquisition systems for nuclear fusion. Real-time control.

IPP Max-Plank-Institut Fur Plasmaphysik (Garching, Munchen, DE)

- Advanced Physic (Nuclear Fusion reserch), Creation of high ionized gas, plasma stability and control , Magnetohydrodynamic MHD, energy transport in the fusion machine.

Exams taken during the research doctorate:

1. advanced plasma physics: IPP, Garching, Munchen DE).
2. Advanced engineering: Padova university
3. Magnetic diagnostic in fusion machines: 6 ECTS, IST, Universidade de Lisboa (PT)
4. Electric Magnetic waves: Prof Maurizio Moresco, 1CTU. Università di Padova
5. MDSPlus for data acquire in RFX experiment: Prof Gabriele Manduchi, consorzio RFX

dates (2004-2010) Laurea magistrale, Ingegneria elettrotecnica.

University of Padua: in addition to the normal career the following exams were added.

- Ricerca Operativa
- Sistemi informatici per la Robotica
- CAD/CAM
- Disegno tecnico industriale

dates (1999-2002) Titolo accademico magistrale (istituto privato a distanza), Dott. Specialista in informatica industriale e Robotica applicata.
Politecnico degli studi aziendali di Lugano: Svizzera.

- Thesis title: Implementazione di programmi "TSR" e considerazione sul loro utilizzo illegale a scopo di spionaggio industriale. Rating: 110/110

dates (1996-1999) Titolo accademico magistrale (istituto privato a distanza), Dott. In scienze aziendali con specializzazione in ingegneria informatica.
Politecnico degli studi aziendali di Lugano: Svizzera.

- Thesis title: Ottimizzazione dei tempi di ricerca in alberi bilanciati. Rating: 110/110

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
B2	B2	B2	B2	B2
above the level according to the Qcert.				
Spanish				
B1	B1	B1	B1	B1
above the level according to the Qcert.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills
- Excellent communication skills gained through my 20 years' experience as teacher and former in topic of Apply Electronic, Computer sciences, Industrial automation control (PLC programming), IT technology
- Excellent communication skills gained in public speeches as president of A.L.S.I. (Association of worker students at the Engineering Faculty of the Padua University). From 1991 to … still engage.
- Good ability in public presentation and PhD speeches in scientific topic gained through previous XXIX doctoral school.
- Good ability in public presentation of a poster and research result during Phd event, in Lisbon, 18th-20th November 2014.
- Good ability in public presentation of a poster and research result during Phd event, in Prague, 18th-20th November 2015

Organisational / managerial skills
- President of the "workers student association, A.L.S.I." of the University of Padua. (currently in standby, at the hit of the activity responsible of 250 people) since 1991 to.. in role
- Permanent Honorary Member of the International Scientific Council of VFF Institute Mare Nostrum e.V. NPO – Österreich (since 2011).
- Founder of G-Tronic Robotics (since 1995)

Job-related skills
- Designer of hydraulic and pneumatic systems.
- Micro-GT IDE, (microcontroller development system) designer.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

ITC certificate or equivalent

- **ECDL Core** (Intesa MIUR -AICA), certificate obtained on March 2005 the 29th, good command of office suite (word processor, spread sheet, presentation software)
- Professional command of CAD Eagle, useful to realize multilayers PCB, in high speed microprocessor electronic application, or analog instrumentation front end.
- Professional command of **TIA Portal V15**, by Siemens, that i used to implement a lot of industrials plant.
- Professional command of **WinCC flexible** and advanced, and Movicom Next, that i used to implement supervision and **SCADA** system that i used in many industrials plant.
- Professional command of **MPLAB X,** including the XC and Hitech C compilers, to implement embedded firmware used in the Micro-GT IDE development hardware system.

Other skills	▪ Excellent manual and intellectual skills in mechanical, electrical, and software, development of robotics system.
Driving licence	A – B- C- D (auto bus and big truck)
Other professional experiences	list of high schools where I was a professor in electrical engineering, electronics or industrial automation.

- IPSIA Bernardi, Padova, terza area, formazione professionale dal 1995 al 2005
- IPSIA Castelfranco, Treviso, terza area, formazione professionale dal 1995 al 2005
- ITI Galileo Ferraris, Camposampiero 2004-2005
- ITI Kelvin e ITI Pitagora, Padova
- Scuola della formazione professionale dei salesiani di Schio, Vicenza, 2004-2011
- Enaip Veneto, sede di Padova, 1995 -2007
- Enaip Veneto, sede di Cittadella, serale per adulti, diurno per istallatori manutentori impianti di automazione industriale.
- IPSIA Pittoni, Conegliano, terza area
- ITIS Vittorio Veneto, Terza Area
- CnosFap, Manfredini, Este, dal 2001 al 2004
- Corsi serali per studenti lavoratori, ALSI, della facoltà di ingegneria di Padova, elettrotecnica.
- SIIC (scuola internazionale italo cinese di Padova) dall'anno scolastico 2018/19 all'anno scolastico 2022/2023, alle scuole medie e al Liceo, classi 1a,2a, 3a media e 1a,2a,3a,4a Liceo - linguaggi di programmazione Cpp eJava su ambiente eclipse, altri argomenti SQL e HTML.

Courses
1) IEEE, International school, Gasparini, Naples, Italy, October 23-30, 2016
2) EMC, Optional course, 1 CFU, professor Maurizio Moresco, during the XXIX cycle.
3) MDS-Plus, Optional course, 1 CFU, professor Gabriele Manduchi, during the XXIX cycle.

School and conference.
1) Advanced physics,(Nuclear Fusion reserch), IPP Max-Plank-Institut Fur Plasmaphysik (Garching, Munchen, DE), iInternational PhD XXIX (2014)
2) Diagnostic and data acquisition, Instituto Superior Técnico, European Fusion Education Network PhD, Advanced Plasma physic and engineering (international doctorate) (2015)

Poster on PhD event.
1) Prague, 2016, New hardware and software, based on FPGA technology, for real time control in nuclear fusion machines.
2) Lisbon. 2015, High speed data acquisition based in FPGA device for the real tie control.

Awards and honours:
1) First place in the competition "In tesi", Premio Galileo 2011, for the best thesis of the year 2010, "Sistema di guida e navigazione combinato ottico bci del robot "optichair ii" in ausilio ai portatori di SLA avanzata".
2) First place in the international competition "Premio Bosco", Zaragoza, Espana, 2009, for the best project, "Robot hand V.2,

Scientific publication:

- Evaluation of noise limits of a precision ADC for direct digital signal integration of magnetic measurements, R. Cavazzana[a], **M. Gottado[a],** A. Rigoni[a] , aConsorzio RFX, Corso Stati Uniti 4, Padova 35127, Italy (submitted)

- A Zynq-based flexible ADC architecture combining real-time data streaming and transient recording, A. Rigoni, G. Manduchi, **M. Gottado**, R. Cavazzana, M. Recchia, C. Taliercio, A. Luchetta, Consorzio RFX, Corso Stati Uniti 4, Padova 35127, Italy (submitted)

Scientific publication for mass distribution:
- Amazon publisher, Marco Gottardo, ISBN-13: 978-0244967031 . Advanced Plc Programming Ed.2018 (third edition 2018).
- Amazon publisher, Marco Gottardo, ISBN-13: 978-0244674076 . Let's Program a Plc Ed.2018 (third edition 2018).
- Createspace publisher, Marco Gottardo, ISBN-13: 978-1720843696. FPGA to High speed ADC Data streaming, HDL programming: Xilinx Zynq7000 family on Vivado IDE platform (FPGA and SoC programming) (first edition 2018).
- Amazon publisher, Marco Gottardo, ISBN-13: 978-0244984526 Let's Program a Plc!!! Esercizi Di Programmazione in Tia Portal V15 S7-1200/1500 E Plc Modelli S7300-400 Wincc Flexible Per Hmi Edizione 2018 (Italian Edition) (third edition 2018).
- CreateSpace publisher, Marco Gottardo, ISBN-13: 978-1492851523 LET'S GO PIC Essentials: Now based on Micro-GT IDE and MPLAB X (first edition 2013).
- LULU publisher, Marco Gottardo, ISBN: 9780244027704 Robotica: basi applicative, edizione 2018 (first edition 2017).
- LULU publisher, Marco Gottardo, ISBN: 9780244689261 Amplificatori Operazionali edizione 2018 (third edition 2018).
- LULU publisher, Marco Gottardo, ISBN: 9780244689261 Elettronica Analogica e Digitale con laboratorio e tecniche SMD edizione 2018 (second edition 2018).
- Amazon publisher, Marco Gottardo, ISBN-13:978-1291273281 . Ottimizzazione dei tempi di ricerca in alberi bilanciati (2013-2018)
- Amazon publisher,Marco Gottardo, ISBN-13: 978-1291357776. Amministratore, installatore, manutentore delle reti L.A.N. (2013)
- Amazon publisher,Marco Gottardo, ISBN-13: 978-1491081242. Corso di Assemblatore di PC (2013)
- Amazon publisher,Marco Gottardo, ISBN-13: 978-1491047682. Teoria e pratica della costruzione di un amplificatore HiFi integrato (2013)
- Amazon publisher,Marco Gottardo, ISBN-13: 978-1291427394. Robot hand v2 gestione a microcontrollore di una protesi robotica (2013)
- Amazon publisher,Marco Gottardo, ISBN-13: 978-1490437514. Robot a guida ottica Optichair V2.: Applicazione degli algoritimi openCV e di eyes traking (2013)
- Amazon publisher,Marco Gottardo, ISBN-13: 978-1291411683 Let's Hack !!! Note sui virus trojan e worms Implementazione Di Programmi Tsr E Considerazione Sul Loro Utilizzo Illegale A Scopo Di Spionaggio)(2013)
- LULU publisher, Marco Gottardo, ISBN: 9781326806064 First step on FPGA Xilinx. Introduzione alla progettazione dei sistemi SoC (first edition 2016).

ANNEXES

- University of Padova degrees (certicate).
- Waiting to receive the joint degree from the University of Lisbon. Defense of the thesis supported April 14, 2018 at the research laboratories in plasma physics, RFX of Padova, with international commission, Portugal, Germany, Belgium, Italy, France.
- Research: FPGA to High speed ADC Data streaming. (the results is published in the book: ISBN: 9780244366896).
- ECDL CORE Intesa MIUR – AICA, copy of certified, with seven Levels exceeded, date and evaluation.
- Scientific publication: Evaluation of noise limits of a precision ADC for direct digital signal integration of magnetic measurements, File
- Scientific publication: A Zynq-based flexible ADC architecture combining real-time data streaming and transient recording