

RICCARDO ERTOLUPI

Electronics engineer mainly specialised in firmware and software development at various levels.

Creative person and very passionate about technology in general.

Exactly for this reason, the professional goal is to exploit the engineering studies for creating projects with high innovative content.



Born on July 28, 1993 in Vicenza and residing in Camisano Vicentino (VI).

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EDUCATION

[University of Padova - Electronics Engineering](#)

From October 2012 to September 2018.

Final grade: 87/110.

Thesis: development of a contact-less thermometer with a Bluetooth Low Energy interface for smartphone. The system involves a temperature sensor, a Bluetooth Low Energy module, a STM32 microcontroller and an Android smartphone with an app developed ad hoc.

[I. T. I. S. "Alessandro Rossi" of Vicenza - Electronics and Telecommunications](#)

From September 2007 to July 2012.

Final grade: 72/100.

Thesis: development of two robots for the RoboCup Jr Soccer B Open League competition. The developed robots play soccer using a ball containing some IR LEDs, they communicate with each other via Bluetooth and each one uses four omnidirectional wheels to move. The system is very complex and it essentially involves many sensors of various kinds, many microcontrollers programmed using Arduino and some actuators.

TECHNICAL SKILLS

- *Great knowledge of the PC hardware and of the most popular operative systems;*
- *Excellent experience in using the programs contained in the Microsoft Office package;*
- *Great knowledge of programming languages: C/C++, Java, Kotlin and PHP;*
- *Good knowledge of the languages: JavaScript, jQuery, HTML and CSS;*
- *Great knowledge about Android System and about programming Apps;*
- *Great knowledge about Android Things operative system;*
- *Excellent experience in using the Arduino development platform;*
- *Excellent experience in programming AVR and PIC microcontrollers;*
- *Excellent experience in programming ARM microcontrollers;*
- *Great experience in using the version control software GIT;*
- *Great skills in PCB design using Eagle or DipTrace;*
- *Basic experience in using MatLab;*
- *Good experience in using LabView to manage measuring instruments;*
- *Good knowledge of AWL language for Siemens PLC programming;*
- *Good experience in CAD design, 2D and 3D using AutoCAD and SolidWorks;*
- *Excellent experience in the use of 3D printers, in particular FDM;*
- *Good experience in using laser cutter and engraver machines;*
- *Good knowledges of photography and computational photography;*
- *Great experience in using Inkscape for graphical design;*
- *Great experience in using GIMP for image editing;*
- *Great experience in using Audacity for audio editing;*
- *Great experience in using Adobe Premiere for video editing.*

ORGANIZATIONAL SKILLS

Great skills of coordination, organization and administration: acquired managing the "Vicenza Thunders" team and carrying out various activities autonomously.

*Excellent attitude to analyse and research solutions for problems of various kinds.
Good skills of work group management: done by avoiding imposing decisions, but rather listening to the various opinions and evaluating the available possibilities.*

RELATIONAL SKILLS

Good experience in relating with the public: acquired thanks to the many events in which the “Thunders Vicenza” team participated as an exhibitor.

Great online marketing experience, especially on Twitter: derived by the activity “PubbliciThunder” managed completely autonomously.

Excellent experience in communicating with customers: acquired during the many work activities done autonomously. The connection to the customer is done by establishing a direct relationship and by basing it on mutual trust, i.e. having honesty as a principle.

Very open mindedness towards people of different cultures: grown thanks to studies and to various experiences (personal and professional), including communicating with foreign clients.

ARTISTIC SKILLS

Good artistic skills: great creativity and inventiveness, as well as great precision and attention to details. Qualities expressed mainly in the development of original projects making the best use of available resources; either electronic and software projects, or mechanical and artistic projects using 3D printers, laser cutting machines, etc.

LANGUAGES

<i>Italian</i> ★★★★★	<i>English</i> ★★★★☆	<i>Spanish</i> ★★★☆☆	<i>French</i> ★★★☆☆	<i>Chinese</i> ★★★☆☆
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WORK EXPERIENCES

SMH Technologies

From December 2018 (ongoing).

Sector and type of work: industrial and universal In-System Programmer (Employee).

Tasks: firmware development to support the programming of various kind of programmable electronic devices.

Vicenza Thunders

From October 2014 (ongoing).

Sector and type of work: electronics and robotics - omnidirectional/mecanum wheels (Owner).

Tasks: communication with customers, order management, design, production using 3D printer, assembling, warehouse management, sale, packaging and shipment.

Soccerment

From February 2017 (ongoing).

Sector and type of work: research and development in the sport sector (Project collaboration).

Tasks: research, development and prototyping of wearable electronic products for sports.

PubbliciThunder / Italian Wine Marketing

From January 2015 (ongoing).

Sector and type of work: online marketing on Twitter (Owner / Project collaboration).

Tasks: development of automatic systems to facilitate marketing operations on Twitter via its official APIs, with the particular application in the wine sector.

Lumi Industries

From November 2014 to November 2017.

Sector and type of work: DLP 3D printers (Project collaboration).

Tasks: research, development and creation of electronic projects for 3D printers.

SpringLab

From August 2014 to January 2016.

Sector and type of work: research and development in various sectors (Project collaboration).

Tasks: research, development and prototyping of wearable electronic products for motorcyclists.

BT Research

From July 2014 to May 2015.

Sector and type of work: research and development in various sectors (Project collaboration).

Tasks: research, development and prototyping of electronic products concerning the safety of drones and their possible use in agriculture.

Elettronica In

From November 2012 to March 2014.

Sector and type of work: monthly magazine of electronic design, current scientific and technological innovations (Project collaboration).

Tasks: design, development and creation of electronic projects; writing technical articles regarding the projects created.

Paolo Campane

From June 2011 to August 2011.

Sector and type of work: electrification bells systems (Internships).

Tasks: programming of the bells tick control system (ECAT clocks); mechanical and electrical maintenance of the bell system.

E.C.S. Circuiti Stampati

From July 2010 to August 2010.

Sector and type of work: production of electronic printed circuit boards (Internships).

Tasks: PCB stamping, PCB drilling, PCB cleaning, quality control.

AWARDS AND EVENTS

- *In April 2011, participated at the student competition “RoboCup jr Italia” with the “Vicenza Thunders” team: ranked second in the category “Soccer B Light Weight”;*
- *In March 2012, participated at the student competition “RomeCup” with the “Vicenza Thunders” team: qualified for the world cup in the “Soccer B Open League”;*
- *In April 2012, participated at the student competition “RoboCup jr Italia” with the “Vicenza Thunders” team: winners and Italian champions in the “Soccer B Light Weight”;*
- *In November 2012, participated as exhibitor at the event “Makers Italy” in Milan;*
- *In March 2013, participated as exhibitor at the event “Codemotion” in Rome;*
- *In May 2013, participated as exhibitor at the event “RoboVal” in Verona;*
- *In October 2013, participated as exhibitor at the event “Maker Faire Rome”;*
- *In December 2013, received an award from the Department for Youth Policies of Camisano Vicentino municipality for the activities carried out by the “Vicenza Thunders” team;*
- *In March 2014, participated as exhibitor at the event “Robot & Makers Milano Show”;*
- *In May 2014, participated as exhibitor at the event “Mini Maker Faire Trieste”;*
- *In May 2014, participated as exhibitor at the event “RoboVal” in Verona;*
- *In September 2014, participated as exhibitor at the event “MTV Digital Days” in the royal palace of Venaria in Torino;*
- *In October 2014, participated as exhibitor at the event “Maker Faire Rome”, during which the “Vicenza Thunders” team was awarded the title of “Maker of merit”;*
- *In March 2015, participated as exhibitor at the event “Ferrara Drone Show”;*
- *In June 2015, participated as exhibitor at the event “TEDx Vicenza”;*
- *In November 2015, participated as exhibitor at the event “Udine 3D Forum”;*
- *In May 2016, participated as exhibitor at the event “Mini Maker Faire Trieste”;*
- *From 2012 to 2017 there was a collaboration with CNA Vicenza, Confartigianato Vicenza, FabLab Vicenza and the School of Arts and Crafts of Vicenza (CPV) to actively participate in various events for local companies;*
- *Over the years there has been also the participation at other local and less relevant events.*

PUBLICATIONS

- In February 2014, published in the magazine “Elettronica In” and in the blog “Open Electronics” the article “Hack your Valentine with HeartThrob” about a developed project;
- In October 2014, published in the international blog “3D Printing Industry” an article written by Davide Sher entitled “Vicenza Thunder’s 3D printed omnidirectional wheels win big at RoboCup”, about the activity of the “Vicenza Thunders” team and, in particular, about the omnidirectional and mecanum wheels produced using 3D printing;
- Over the years many other less relevant articles have been published on online blogs or in local newspapers and, in any case, about the activity of the “Vicenza Thunders” team.

OTHER INFO

In the document the “Vicenza Thunders” team is often mentioned, it is composed by Daniele Sprenggiaro and by the undersigned. Moreover, until July 2012, Daniele Zaccaria was also a member. More info about that are available in the website: VicenzaThunders.com

While, on my personal website, self-employed activities are described: LikeNoOther.it

Various dynamically updated versions of this curriculum vitae are available online:

Format	Italian language	English language
Custom	LikeNoOther.it/CV_RiccardoErtolupi_It.pdf	LikeNoOther.it/CV_RiccardoErtolupi_En.pdf
AlmaLaurea	LikeNoOther.it/CV_RiccardoErtolupi_AL_It.pdf	LikeNoOther.it/CV_RiccardoErtolupi_AL_En.pdf
EuroPass	LikeNoOther.it/CV_RiccardoErtolupi_EP_It.pdf	LikeNoOther.it/CV_RiccardoErtolupi_EP_En.pdf

A much shorter version of this CV, containing only the essential information, is also available: LikeNoOther.it/CV_RiccardoErtolupi.pdf

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