

Matteo Iervasi

Curriculum Vitae

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* 27 January 1996

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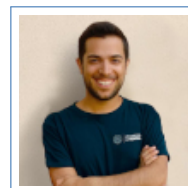
🌐 <https://jackhack96.github.io/>

in [matteo-iervasi](#)

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Education

2010–2015 **High school diploma**, *Angelo Messedaglia*, Verona

2015–2018 **Bachelor Degree**, *University of Verona*, Verona

2018–2020 **Master Degree**, *University of Verona*, Verona

Master thesis

Title *Integrating synthetic and real components of a cyber-physical production system*

Supervisor Prof. Franco Fummi

Advisor Dr. Stefano Centomo

Abstract One of the key aspects of *Industry 4.0* is the concept of Digital Twins, as they are an enabling technology for things like predictive maintenance, real-time production optimization, on-demand product customization and so on. . . A limiting factor in the creation of *Digital Twins* is the abundance of incompatible modeling languages. Among the research and the projects that tries to overcome this issue, AutomationML is increasingly cited and used as a vendor-neutral language for model exchange. This work proposes a simple direct approach for the integration of models in CPPS systems, using AutomationML as the base technology.

Experience

Vocational

2020–2023 **Embedded software engineer**, *EDALab S.r.L.*, San Giovanni Lupatoto
General firmware and low-level embedded software development for third-parties.

Miscellaneous

2017–2018 **Generic worker**, *University of Verona*, Verona
I worked as a generic collaborator for the Department of Computer Science at University of Verona.

2017–2018 **Internship**, *Sordato srl*, Monteforte d'Alpone
Developed an automated management system for wine fermentation machines.

2018 **Generic worker**, *University of Verona*, Verona
I worked as an assistant at the G. Zanotto library of the Department of Law at University of Verona.

- 2019 **Internship**, *University of Verona*, Verona
Developed an operating system image for classrooms' displays based on Raspberry Pi.
- 2020 **Internship**, *EDALab S.r.L.*, San Giovanni Lupatoto
Integrated reliable update mechanism base on SWUpdate for BoxIO.

Volunteering

- 2017–2023 **Technician**, *AVIS*, Vigasio
I volunteered as a technician and general assistance at the local AVIS association, an Italian organization that promotes blood donation.







Languages

Italian Native language
English Expert level

IT skills

■ ■ ■ ■ ■ basic knowledge
■ ■ ■ ■ ■ intermediate knowledge with some project experience
■ ■ ■ ■ ■ extensive project experience
■ ■ ■ ■ ■ deepened expert knowledge
■ ■ ■ ■ ■ expert / specialist

	Level	Skill	Years	Comment
Language:	■ ■ ■ ■ ■	C	13	<i>As a firmware engineer, C is often my only language available. I also know compiler-specific extension for GCC and IAR®.</i>
	■ ■ ■ ■ ■	C++	5	<i>Though not as good as I'm with C, I use C++ often, generally for HMI in embedded projects with frameworks such as Qt.</i>
	■ ■ ■ ■ ■	Python	5	<i>I developed some personal projects with Python and it's my go-to choice when doing complex scripts.</i>
	■ ■ ■ ■ ■	Java	9	<i>I've used Java in many personal projects and also at the university, but I don't generally like to use it.</i>
	■ ■ ■ ■ ■	L ^A T _E X	5	<i>I've used L^AT_EX for all my documents at the University and I still use it sometimes for complex documents, as I generally prefer it over Microsoft® Office®.</i>
OS:	■ ■ ■ ■ ■	GNU/Linux	13	<i>I've used many GNU/Linux distributions in the past and I've settled on Ubuntu for a decade now.</i>
	■ ■ ■ ■ ■	Microsoft® Windows®	18	<i>I can use any Microsoft® Windows® version though I prefer to use Linux when possible.</i>
MCU:	■ ■ ■ ■ ■	ST® STM32	5	<i>ST has been my main developing platform for quite some time.</i>

		Renesas® RL78	3	<i>I've worked with this 16-bit architecture for a variety of customers.</i>
		Renesas® RX130	3	<i>My knowledge on this platform is more limited than RL78 because of fewer projects, but still good.</i>
		Intel® 8051	3	<i>I've used this architecture on some projects with success.</i>
		Other ARM-based	3	<i>I've worked with many different ARM-based architectures apart from ST, like Renesas® RA, NXP® Kinetis, Cypress® FM4 and others.</i>
		Arduino	5	<i>Arduino was by starting point in the embedded world. It's still good for rapid prototyping.</i>
Others:		Yocto	3	<i>Experienced using Yocto Project for customizing embedded Linux distributions.</i>

Interests

- Electronics I like to learn about electronics and tinkering with it, especially Arduino or similar technologies.
- DIY I love to repair home appliances and furnitures, aside from fixing broken computers and smartphones.
- Sports I love to workout and attending the gym.