



# Francesco Dondi

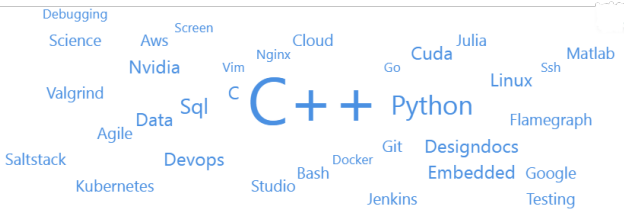
 Born 29/10/1990, Bologna, Italy,  Italian citizen  
 Married, no children

Latest version of this CV at:  
[github.com/Fdondi/cv-latex/blob/main/cv\\_en.pdf](https://github.com/Fdondi/cv-latex/blob/main/cv_en.pdf)

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 in francesco-dondi  
 Fdondi  
 C permit until 30/09/27



The guarantee of experience, the enthusiasm for good engineering.



## Experience

09/2023 - Current	<b>Growth time</b> Restarted intensive German study. First personal embedded development project (Arduino). Experimented with LLMs, including: prompt engineering, created a CustomGPT to assist with German learning; architecture, discovered the details of transformer structure and parameter efficient training; learnt to run language models locally.
03/2023 - 09/2023 <b>DoubleCloud</b> Company size: 50-100	<b>Software Developer</b> , Zürich Maintained and developed the infrastructure around managed ClickHouse, in particular: <ul style="list-style-type: none"><li>Secured metrics server by adding Nginx</li><li>Improved SaltStack configuration</li><li>Solved bugs in Telegraf Go plugins</li></ul>
10/2022 - 02/2023	<b>Personal Time</b> Got married, organized celebrations across two continents. Moved house. Started studying German intensively. Sailed for a week for the first time. Decided to take Data Science certification (see Education).
06/2021 - 09/2022 <b>Firebolt</b> Company size: 50-100	<b>Software Developer</b> , Zürich Maintained and developed the SQL optimization engine and testing infrastructure. <ul style="list-style-type: none"><li>Expanded supported SQL syntax and optimizations</li><li>reworked the test framework to support new test suite</li><li>contributed to rewriting to higher standards the optimization engine</li></ul>
08/2020 - 02/2021 <b>F-Trust</b> Company size: 5	<b>Developer / Analyst</b> , Zug <ul style="list-style-type: none"><li>Maintained and developed a Trading Engine (C++)</li><li>redesigned, implemented and migrated storage (PostgreSQL)</li><li>extracted and integrated data from multiple log streams</li><li>analyzed data to highlight opportunities for improvement (Julia)</li></ul>
10/2017 - 05/2020 <b>Google</b> Company size: 100.000	<b>Software Developer</b> , Zürich Within Search, productionized an initially experimental tool (C++). <ul style="list-style-type: none"><li>Improved runtime from days to hours</li><li>added support for new kinds of data</li><li>made the results easily visualizable and monitorable</li><li>made onboarding orders of magnitude faster for most cases</li></ul>
04/2016 - 10/2017 <b>Ascent Software</b>	<b>Software Developer</b> , Luqa, Malta Bridging from internal API to new device API for automotive.
04/2015 - 04/2016 <b>Rulex Inc. /CNR</b>	<b>Junior Developer</b> , Genua, Italy Reworked C/MATLAB algorithms for OpenMP/CUDA parallelization

## Languages

English	Fluent professional
Italiano	Madrelingua
Deutsch	B1, B2 geplant 03/24
Français	Bon

## Programming

C++	<div><div></div><div></div><div></div><div></div><div></div></div>
- C++/Abseil	<div><div></div><div></div><div></div><div></div><div></div></div>
- C++/Boost	<div><div></div><div></div><div></div><div></div><div></div></div>
SQL	<div><div></div><div></div><div></div><div></div><div></div></div>
- Clickhouse SQL	<div><div></div><div></div><div></div><div></div><div></div></div>
- PostgreSQL	<div><div></div><div></div><div></div><div></div><div></div></div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div>
Julia	<div><div></div><div></div><div></div><div></div><div></div></div>
Go	<div><div></div><div></div><div></div><div></div><div></div></div>

## Tools

BASH	<div><div></div><div></div><div></div><div></div><div></div></div>
Linux	<div><div></div><div></div><div></div><div></div><div></div></div>
Windows	<div><div></div><div></div><div></div><div></div><div></div></div>
Visual Studio	<div><div></div><div></div><div></div><div></div><div></div></div>
AWS storage	<div><div></div><div></div><div></div><div></div><div></div></div>
Docker	<div><div></div><div></div><div></div><div></div><div></div></div>
Git	<div><div></div><div></div><div></div><div></div><div></div></div>
Jenkins CI	<div><div></div><div></div><div></div><div></div><div></div></div>
SSH	<div><div></div><div></div><div></div><div></div><div></div></div>
VIM	<div><div></div><div></div><div></div><div></div><div></div></div>
Valgrind	<div><div></div><div></div><div></div><div></div><div></div></div>
Flamegraph	<div><div></div><div></div><div></div><div></div><div></div></div>
Nvidia CUDA	<div><div></div><div></div><div></div><div></div><div></div></div>
OpenMP	<div><div></div><div></div><div></div><div></div><div></div></div>

## Competences

Testing	<div><div></div><div></div><div></div><div></div><div></div></div>
Debugging	<div><div></div><div></div><div></div><div></div><div></div></div>
DevOps	<div><div></div><div></div><div></div><div></div><div></div></div>
Design Docs	<div><div></div><div></div><div></div><div></div><div></div></div>
Embedded Dev.	<div><div></div><div></div><div></div><div></div><div></div></div>
Agile Dev.	<div><div></div><div></div><div></div><div></div><div></div></div>

## Formal education

- 2023 H1 **Business Analytics: From Data to Decisions**, *Imperial College Business School*
- 2009–2015 **Galileian School of Higher Education**, *University of Padua*, University-level enriching program for gifted students, *98/100*
- 2012–2014 **Master Degree in Mathematics**, *University of Padua*, *108/110*
- 2009–2012 **Bachelor Degree in Mathematics**, *University of Padua*, *110/110 cum Laude*
- 2004–2009 **High School - Science Track**, added **IT, French**, *Liceo Fermi*, Bologna, *100/100 cum Laude*

## Continuous Learning

### Data Science/Analytics

Nov 2023	<i>Linkedin</i>	<b>Data Fluency: Exploring and Describing Data</b>	Data Analysis	●●●○
Nov 2023	<i>Linkedin</i>	<b>Power BI Essential Training</b>	Data Visualization	●●●○
Oct 2023	<i>Linkedin</i>	<b>Business Intelligence for Consultants</b>	Probability	●●●○
Oct 2023	<i>Linkedin</i>	<b>Data Analytics for Business Professionals</b>	Microsoft Power BI	●●○○
Oct 2023	<i>Linkedin</i>	<b>Excel: Economic Analysis and Data Analytics</b>	Microsoft Excel	●●●●
Oct 2023	<i>Linkedin</i>	<b>The Non-Technical Skills of Effective Data Scientists</b>	Pandas	●●●●

### AI and LLMs

#### Programming languages

Nov 2023	<i>Linkedin</i>	<b>C# Essential Training 1: Types and Control Flow</b>	C#	●●○○
Oct 2023	<i>Linkedin</i>	<b>Learning MATLAB</b>	MATLAB	●●○○

#### Embedded development

Nov 2023	<i>Linkedin</i>	<b>C Programming for Embedded Applications</b>	C Embedded	●●●○
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#### Cloud and DevOps

Feb 2023	<i>Linkedin</i>	<b>AWS Certified Solutions Architect - Associate (SAA-C02)</b>	Cloud Admin	●●●○
		<b>Cert Prep: 1 Cloud Services Overview</b>	AWS Cloud	●●●○
Jan 2023	<i>Linkedin</i>	<b>DevOps Foundations: Going Cloud Native</b>	DevOps	●●●○

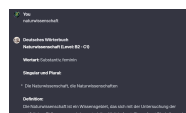
## Projects

### Embedded



Nov 2023	<b>BTC Arduino monitor</b> <a href="https://github.com/Fdondi/arduino-btc">github.com/Fdondi/arduino-btc</a>	C++ Embedded Arduino SSH embedded Embedded Development	●●●○ ●●○○ ●○○○ ●●○○
A bot checking Bitcoin prices and blinking a green led if the price is above average, red if below. The speed of blinking depends on the magnitude of the change.			

### LLMs / Prompt engineering



Dec 2023	<b>Deutsches Wörterbuch</b> <a href="https://chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch">chat.openai.com/g/g-bpvvdzIKE-deutsches-worterbuch</a>	AI UX Prompt engineer-	●●●○ ●●○○
A CustomGPT, takes one word and provides grammar, explanation in German and English, examples of use, and a final image visualizing the concept. Clarifies ambiguous or misspelled words, can discuss any user doubt. Can adjust German level used both automatically and on request.			

### UI/Design



Dec 2023	<b>This CV</b> <a href="https://github.com/Fdondi/cv-latex">github.com/Fdondi/cv-latex</a>	L <sup>A</sup> T <sub>E</sub> X Business communication	●●●● ●●●○
L <sup>A</sup> T <sub>E</sub> XCV, heavily modified from <i>moderncv</i> , with a wordcloud and second bar on the left to showcase competences level. Two more colors introduced. Courses and projects are displayed with custom formatting.			