

FlavioZuffa

R&D Computer Vision Engineer

about me

First name: Flavio

Last name: Zuffa

contact

Via Pigno 13

Bagnara di

Romagna(RA) 48031

Italy

+39 0545 76175

+39 349 3472039

mail:

flavio.zuffa@gmail.com

skype:

flavio.zuffa@outlook.it

languages

Italian mother tongue

English & French

fluency

programming

C++, C, Python, Java,

M(Matlab), VHDL

education

2015 - 2018

Master Degree in Computer Engineering

Alma Mater Studiorum, University of Bologna

Final grade: 110/110 Summa Cum Laude

Classes I liked the most:

- Operations Research.
- Real Time Systems.

2009 - 2015

Bachelor Degree in Computer Engineering

Alma Mater Studiorum, University of Bologna

experience

07/2022 –

Today

Scandit AG

Zurich, Switzerland, Remote

Senior Computer Vision Engineer

I am currently working as a Computer Vision Engineer, I'm focused on developing detection and decoding algorithms for 2D symbologies on the core engine of the company. I'm working in a creative manner both by using established algorithms and creating my own. I'm working on deep neural networks to solve problems such as warping, recognition and super-resolution.

Technologies and tools I use the most:

- C++14
- Git & Gitlab
- Python, numpy, PyTorch

09/2018 –

07/2022

Datalogic Srl

Bologna(BO), Italy

Research & Development Platform Engineer

I worked as an R&D Engineer, I applied my skillset to a wide range of computer vision related problems. I worked both on desktop and embedded applications. My goals included amongst them to develop new and better performing solutions to problems such as: pattern matching, automatic labeling, object detection, super-resolution, etc..

Technologies and tool I used the most: C++, SIMD instructions(vectorization), Git, Python and relative packages: OpenCV, numpy, sklearn, Keras, TensorFlow.

08/2017 –

03/2018

Datalogic USA, Inc.

Eugene(OR), United States of America

Research Intern

Set up a system for producing data and ground truthing it accordingly as an aid for deep learning applied to neural networks. I worked both on the system engineering part of the project and the software part.

Technologies I used: Python: OpenCV, numpy, sklearn, C#, C++.

2016–2017

Lions Club Valle del Senio

Forlì(FC), Italy

Engineer & Developer

Creation and implementation of a vote platform.

2010–2019

Private Tutoring

Bagnara di Romagna(RA), Italy

Continues on the back

patents

- **US19/065,614**: Smart barcode detection. U.S. Patent, filed Feb 27, 2025. Patent pending.

Several solutions I developed are either in the patenting process or deemed as trade secrets.

communication skills

I enjoy giving presentations and I do not mind expressing myself in front of a crowd, during my academic career I have always stepped up for the groups I was in to talk in front of the professor or the class.

I like working in groups and I do not mind being corrected if I am wrong, I believe that communication is one of the best means a group has to reach its goals.

languages

Language	Listening	Reading	Spoken Interaction	Spoken Production	Writing
English	C2 proficient	C2 proficient	C2 proficient	C2 proficient	C2 proficient
French	B1 independent	A1 basic	B1 independent	B1 independent	A1 basic

interests

Professional: Artificial Intelligence, coding, problem solving, cutting edge technology & algorithms, real time applications. I like solving problems, I am not scared by complexity and I enjoy optimizing.

skills

Software (most important): Microsoft Office package, Adobe Photoshop, Inkscape, IBM DB2

Programming Languages & tools(most important):

- **C++**: Proficient user, my go to language, daily user.
- **C**: Good knowledge, I have notions of parallel programming with pthread and such.
- **Python**: Good knowledge.
- **Git**: Good knowledge, daily user.
- **Java**: Proficient user.
- **M(Matlab)**: Good knowledge.
- **VHDL**: Occasional user, I know the basics, I did some work implementing a VGA driver.
- **Bash scripting & Linux**: Basic knowledge.