FlavioZuffa
R&D Engineer

about me
First name: Flavio
Last name: Zuffa

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:
- Data Science.
- Operations Research.
- Real Time Systems.

2009 - 2015   **Bachelor Degree** in Computer Engineering   Alma Mater Studiorum, University of Bologna
Final grade: 93/110
Classes I liked the most:
- Software Engineering.
- Analysis.
- Linear Algebra.

experience

09/2018 – Today   **Datalogic Srl**   Bologna(BO), Italy
Research & Development Platform Engineer
I am currently working as an R&D Engineer, I apply my skillset to a wide range of computer vision related problems. My goals include amongst them to develop new and better performing solutions to problems such as: pattern matching, automatic labeling, object detection, super-resolution, etc..
Technologies and tools I use the most:
- Machine learning methods and processes(PCA, deep learning, Neural Networks, Convolutional Neural Networks, etc...)
- C++
- SIMD instructions(vectorization, ARM NEON, Intel AVX2, SSE4, etc..)
- Git, CMake and various build tools
- 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**   Forli(FC), Italy
Engineer & Developer
Creation and implementation of a vote platform. The platform consists in a server and in multiple clients(Android tablets) that can be used to cast the vote.
Technologies I used: Java, Spring, Android SDK, Apache Tomcat

2010–2019   **Private Tutoring**   Bagnara di Romagna(RA), Italy
Teacher of Math, Physics and Computer Science
I teach Math, Physics and Computer Science to students ranging from secondary school up to the first year of university. I provided frontal lessons to classes consisting of approx. 15/20 alumni.

communication skills

Oral Presentation   Imola Town Hall, Imola(BO), Italy
Presented the group work my class made in collaboration with "Città di Imola" (Town of Imola) consisting in a web application used to manage the town's vehicles in a time-shared fashion.

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**: Good knowledge, daily user.