

# ANDREA MAZZEO

## SOFTWARE ENGINEER



📍 Bollate, Milan, Italy

📅 28 September 1995

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## HARD SKILLS

### SOFTWARE DEVELOPMENT

C, C++, QT, PYTHON, GIT, JIRA

### COMPUTER VISION

OPENCV, DEEP LEARNING,  
PYTORCH, KERAS, TENSORFLOW

### EMBEDDED SYSTEMS

FPGA, VHDL, VERILOG

### WEB DEVELOPMENT

JAVASCRIPT, HTML, CSS

## SOFT SKILLS

TEAM WORK  
PROBLEM SOLVING  
COMMUNICATION  
AUTONOMY  
TIME MANAGEMENT  
ADAPTABILITY  
LEADERSHIP

## LANGUAGES

ITALIAN ● ● ● ● ● ●

ENGLISH ● ● ● ● ● ●

## PROFILE

Versatile software engineer highly involved in research activities concerning computer vision and deep learning world. Always been passionate about low-level programming, where attention to detail is key. I'm willing to learn and improve with new challenging experiences.

## EXPERIENCE

### SOFTWARE ENGINEER | SMART ROBOTS | 2021 - PRESENT

MAIN ACTIVITIES:

C++, CMake, QT, OpenCV, Computer Vision

### TEACHING ASSISTANT | POLITECNICO DI MILANO | 2020 - 2021

COURSE:

Fundamentals of Computer Science

### RESEARCH GRANT | POLITECNICO DI MILANO | 2020 - 2021

RESEARCH TITLE:

Design and analysis of image processing applications for critical systems

## EDUCATION

### MASTER'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING | 2017 - 2019

POLITECNICO DI MILANO

110 with honors / 110

THESIS:

A Hybrid Fault Injection Framework for Image Processing Applications in FPGA

AREAS OF INTEREST:

Image processing and computer vision, embedded systems, firmware development, reconfigurable devices, computer architectures

### BACHELOR'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING | 2014 - 2017

POLITECNICO DI MILANO

105 / 110

FINAL PROJECT:

Lorenzo il Magnifico – A multiplayer board games developed in Java

AREAS OF INTEREST:

Software engineering, full stack development, networking, database design

### HIGH SCHOOL DIPLOMA IN ELECTRONICS AND IT ENGINEERING | 2009 - 2014

ITCS ERASMO DA ROTTERDAM, BOLLATE

98 / 100

FINAL PROJECT:

A tracking system of an object using a CCD sensor

AREAS OF INTEREST:

FPGA, microcontroller ARM, robotics, PCB design

## PUBLICATIONS

### USABILITY-BASED CROSS-LAYER RELIABILITY EVALUATION OF IMAGE PROCESSING APPLICATIONS

IEEE INTERNATIONAL SYMPOSIUM ON DEFECT AND FAULT TOLERANCE IN VLSI SYSTEMS | 2021

C. Bolchini, L. Cassano, A. Mazzeo, A. Miele

### APPROXIMATION-BASED FAULT-TOLERANCE IN IMAGE PROCESSING APPLICATIONS

IEEE TRANSACTIONS ON EMERGING TOPICS IN COMPUTING | 2021

M. Biasielli, C. Bolchini, L. Cassano, A. Mazzeo, A. Miele

### ERROR MODELLING FOR IMAGE PROCESSING FILTERS ACCELERATED ONTO SRAM-BASED FPGAS

IEEE INTERNATIONAL SYMPOSIUM ON ON-LINE TESTING AND ROBUST SYSTEM DESIGN | 2020

C. Bolchini, L. Cassano, A. Mazzeo, A. Miele