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:
Fondamenti di Informatica

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

PUBBLICATIONS

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 SYMPSOSIUM ON ON-LINE TESTING AND ROBUST SYSTEM DESIGN | 2020
C. Bolchini, L. Cassano, A. Mazzeo, A. Miele