PAOLO BALDINI

Date of birth: 1997-09-20,   Bologna, Emilia Romagna, Italy

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GitHub:https://github.com/mandrab,   Google Scholar:https://bit.ly/3aAWD0r

• EDUCATION

◇ MASTER OF COMPUTER SCIENCE AND ENGINEERING — A.Y. 19/20 – 20/21

UNIVERSITY OF BOLOGNA – 110/110 with honours
Thesis: Online adaptation of robots controlled by nanowire networks

◇ EUROPEAN MASTER ON ADVANCED ROBOTICS – ERASMUS+ — 10/2020 – 02/2021

WARSAW UNIVERSITY OF TECHNOLOGY – 4.84/5.00

◇ BACHELOR OF COMPUTER SCIENCE AND ENGINEERING — A.Y. 16/17 – 18/19

UNIVERSITY OF BOLOGNA – 104/110
Thesis: Progettazione e sviluppo di un modulo sensoristico e di comunicazione per la piattaforma robotica AlpaBot

◇ HIGH SCHOOL DIPLOMA IN ELECTRONICS AND ELECTROTECHNICS — A.Y. 11/12 – 15/16

ISTITUTO TECNICO INDUSTRIALE STATALE "BLAISE PASCAL" – 70/100
Project: Launchpad: electrical and software design

• PUBLICATIONS

◇ RESERVOIR COMPUTING IN ROBOTICS: A REVIEW — 06/2022

– DOI: arXiv: 2206.11222

• LANGUAGES

Italian	• • • • • •	Native	Spanish	• • • ◦ ◦ ◦	A2/B1
English	• • • • • ◦	C1	Turkish	• • ◦ ◦ ◦ ◦	A1/A2

• WORK EXPERIENCES

◇ IT CONSULTING — 06/2022 – PRESENT

GAIAG S.R.L. – Debug and ad-hoc specialized tasks in the area of decision support systems.

◇ C++ PROGRAMMER — 10/2018 – 12/2018

ELEMENTS S.R.L. – Development of software systems for the analysis of data collected from a current amplifier for nano-pores and single channel electrophysiology applications.

◇ STADIUM STEWARD — 11/2015 – 05/2016

VIVATICKET (EX BESTUNION) – Different responsibilities, such as: crowd management, security control and welcoming.

◇ ELECTRICAL EXPERT ASSISTANT — 06/2015 – 08/2015

STUDIO EQUA – Electric and architectural plants design. Archive management.

• PROJECTS

◇ ONLINE ADAPTATION OF ROBOTS 2022

– Continuous adaptation of a robotic system to some tasks and environments:
(1) collision avoidance, (2) area avoidance, (3) T-maze.

◇ MEMRISTIVE DEVICE SIMULATOR 2021

– Optimization and packaging of the simulator of a memristive, nanometric device for a physic research group in Turin.

◇ TRAJECTORY ESTIMATOR 2020

– Matlab script for the estimation of a ball trajectory from captured images (i.e., Computer Vision).

◇ TRAJECTORY RECONSTRUCTOR 2020

– Matlab script for the reconstruction of a camera trajectory from captured images (i.e., Computer Vision).

◇ IoT SYSTEM: HARDWARE AND SOFTWARE CREATION 2019

– Collaborated in the hardware creation of IoT devices, like connection of sensors and power calibration, for and with the collaboration of a University Professor. Created the control software for their interaction.

◇ OTHER PROJECTS UPON REQUEST

• COMPETENCIES

GENERAL		TOOLS	
MULTI-PARADIGM PROGRAMMING	• • • • • •	GIT	• • • • • •
EMBEDDED SYSTEMS & ROBOTICS	• • • • • •	BUILD AUTOMATION (GRADLE, MAVEN, SBT)	• • • • • ◦
ELECTRICAL DESIGN AND CONSTRUCTION	• • • • • ◦	DOCUMENTATION (UML, OPENAPI, *DOC)	• • • • • ◦
DISTRIBUTED SYSTEMS & IoT	• • • • ◦ ◦	DOCKER	• • • • • ◦
FULL-STACK WEB DEVELOPMENT	• • • ◦ ◦ ◦	OFFICE SUITES (WORD, EXCEL, POWERPOINT)	• • • • • ◦
OTHERS...		OTHERS...	

• SOFT SKILLS

CREATIVITY AND PROBLEM SOLVING
Loving logic and competitive games since my since childhood. Enhanced during university.

ORGANIZATION AND PRECISION
My I.T. background imprinted my with a high level of data and task organization, allowing me to be precise and punctual in my duties.

SELF-IMPROVEMENT
I constantly try to learn more and use information to produce something new. My publication is a clear example of this attitude.

GROUP WORK AND LEADERSHIP
Learned in multiple university projects, requiring collaboration and sometimes leadership to keep the project on the correct path.

AUTONOMY
The Covid-19 period required individual work, confirming my autonomy in study and tasks completion.

Bologna, August 29, 2022

Signature: