Matteo Curci

Computer Science Engineer

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Work experience

Digital Integrator Engineer
Feb 2016 - Present

NuZoo Robotics S.r.l.

in addition to representing the product manager for a mobile video surveillance robot, I also deal with the software development in Linux environment. This part is focused on web interfaces (HTML, CSS, Javascript) and software based mainly on NodeJS (server side),C# or Java (for Android mobile apps).
I had brief experiences in the development of firmware for AVR. Hardware side I often interact with single board like Raspberry PI and TinkerBoard.

For a short time I worked in development of building automation systems using the Niagara framework.

Co-founder and Web developer
Mar 2014 - Gen 2019

UniShare

Website for university student, with much more functionality (books sale, courses rating, ads for rent,erasmus experience section, etc.) and for different italian universities. It has actually more than 13000 subscribers. (www.unishare.it)

Web Developer
Aug 2009 - Sep 2009

DB Media

Designer of websites for company

Education

Master of science degree, Computer Science and Engineering
2013 - 2015

Politecnico di Milano

Master of science degree , attending several courses including: cognitive robotics, computer security, soft computing, formal languages and compilers, mechanics, data analysis and model identification, autonomous agents and multiagent systems, design of mobile applications, distributed systems, technologies of information systems, computer graphics

- Thesis : "Imitation learning through motor primitives in a bioinspired humanoid robot". The intent of this thesis is to apply a mathematical model that reproduce the concept of learning a movement on a humanoid robot. Two experiments will be perform on the humanoid NAO robot with the purpose of demonstrating the ability of the system to generate a movement and adapting it to new situations.

Bachelor's degree, Computer Science and Engineering
2010 - 2013

Politecnico di Milano

Bachelor's degree in Computer Science, attending several courses including: physics, electronics, mathematical analysis, automatic, automation, robotics, statistics, database,communication network and internet, software engineering

- Thesis: "Horse Fever, Java game"

Diploma
2005 - 2010

ITI Pino Hensemberger

Perito Informatico

Certifications

Niagara Framework Technical Certification Program (TCP)

Tridium

The goal of the Technical Certification Program (TCP) training course is to help a broad range of distribution partners in the building automation, energy services, power/utility, and industrial sectors gain the level of technical expertise necessary to effectively and efficiently design, engineer, and program projects using the Niagara Framework.

TOEIC

ETS Global B.V.

English language test designed specifically to measure the everyday English skills of people working in an international environment

Skills

- Good knowledge of these **languages/library**:

  C,C++,PHP,HTML,CSS, jQuery,Java,JavaScript,Ajax,Matlab,Python,Java Enterprise Edition,C#,SQL,XML, NodeJS (and very basic knowledge of React Framework), LaTeX

- Knowledge base of NoSql database (mainly MongoDB)

- Good knowledge of Node-Red framework

- Basic knowledge of Arduino and AVR firmware

- Nao Robot and its framework: NaoQi,Nao Choreographe

- Good knowledge on development for Android platform

- Knowledge base of ROS

- Knowledge about Windows OS and Linux-based OS (mainly Ubuntu and Debian distro)

- Good knowledge of Joomla CMS

- Basic knowledge of cloud platform like Google Cloud Platform, Amazon AWS, Microsoft Azure

- Good knowledge of Tridium Niagara Framework

- Good knowledge about the use of Word, Excel and other utility programs

Projects

- **Node-RED course**

  I teach a basic Node-RED course on the Udemy platform

- **Twitch channel**

  I have a Twitch channel where I stream about the world of programming

  http://www.twitch.tv/accacoding

- **Autonomous robot for fairs and conferences**

Among the various projects developed in Nuzoo Robotics, I point out the development of a mobile robot for fairs and conferences. My work mainly concerned the front-end part and the man-machine interaction logics.

- **Artificial Intelligence and Neural Networks**

January 2019 - September 2021

Personal project. Using appropriately customized and trained neural networks (R-CNN), I apply them to existing and low-cost hardware, thus allowing to have an autonomous system "guided" by artificial intelligence.

- **Android application (University project)**

June 2015 – September 2015

Android app for the course "Design and Implementation of Mobile Application". The application connected student and tutor,through a notification system. It allowed to specify personal data,insert help request and much more.

- **RobotProjects**

Starting September 2012 - present

Youtube channel about robotics.

- **NAO robot audio   (University project)**

 July 2014

Project for the course Cognitive Robotics at Politecnico of Milano.The project,developed in Java and C#, was relative to audio part of robot NAO.

- **TravelDream - Web Application (University project)**

 October 2013 – January 2014

Web Application based on J2EE,with use of HTML,CSS and MySQL. Glassfish was the application server used.

- **Polishare**

  September 2013 – February 2014

Website that wants to collect material and opinion for the courses of Politecnico of Milano.

- **Horse Fever - Java game**

  March 2012 – June 2012

 Java (and Swim) application inspired by the game Horse Fever.It was my thesis project and my first real project.It gave me my first experience and first difficulty to work in team.

Interests

Robots developing, programming and comics stuff.

My github page with some projects:

https://github.com/accateo

Languages

- **Italian**

Native or bilingual proficiency

- **English**

Professional working proficiency