

NICOLÒ GHIEMMETTI

Computer Science Engineer

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PROJECTS

Atmospheric Pressure Prediction on STM32-Nucleo board

📅 Mar 2019 – Jan 2020

📍 Politecnico di Milano, STMicroelectronics

Porting TensorFlow model of LSTM NN to a STM32-Nucleo board.
Tested using MEMS sensor board for getting pressure values.

- GitHub Repository: <http://tiny.cc/m713jz>
- Snapshot for NN performance testing: <http://tiny.cc/ac23jz>

Machine Learning

Edge Computing

RT Operating Systems

Weather Data Analysis Application using oMVC

Service Observability By-Design: Observable MVC

📅 Jan 2019 – Feb 2020

📍 Politecnico di Milano

Design of oMVC pattern, i.e. Model View Controller considered as a target for a controlled refactoring experiment aimed at making it more observable. To test the pattern, an SOA-web-application has been developed for the analysis of weather data.

- GitHub Repository: <http://tiny.cc/su6jez>
- Design pattern presentation paper: <http://tiny.cc/e16jez>

Software Engineering

Post-Processing and Visualisation

Supporting Tools

Valmostrato - High Altitude Balloon Prototype

📍 ITIS Magistri Cumacini - Diploma thesis

Design and implementation of a high altitude balloon payload and the required "terrestrial" architecture to retrieve weather data and position.
Developed in collaboration with <http://meteovalmorea.it/>

- GitHub Repository: <http://tiny.cc/b66jez>
- Video of the launch: <http://tiny.cc/i86jez>

Code Development

Embedded Systems

Winemonitor

📅 Under development

Implementation and deployment of a real-time monitoring system aimed at controlling and tracking chemical and physical parameter of grape must during fermentation.

- GitHub Repository: <http://tiny.cc/536jez>

Code Development

IoT

MQTT

InfluxDB

EXPERIENCE

Developer and designer of auxiliary technological devices

Sim-Patia Coop. Soc.

📅 Jun 2015 – Oct 2018

📍 Valmorea (CO), Italy

- Software development and design of state-of-the-art projects intended for people who have motor and intellectual disabilities.

Code Development

Arduino

Android

Java

EDUCATION

M.Sc. in Computer Science and Engineering - Ambient and Data Intelligence

Politecnico di Milano

📅 Sept 2018 – Ongoing

B.Sc. in Computer Science and Engineering - Engineering of Computing Systems

Politecnico di Milano

📅 Oct 2015 – Sept 2018

Score: 102 / 110

NATURAL LANGUAGES

Italian

● ● ● ● ●

English

● ● ● ● ●

French

● ● ● ● ●

FORMAL LANGUAGES

Web

• J2EE

● ● ● ● ●

• JS

● ● ● ● ●

Desktop

• Java

● ● ● ● ●

• C++ (Qt)

● ● ● ● ●

• Python

● ● ● ● ●

Embedded/FPGA

• Android

● ● ● ● ●

• C/C++

● ● ● ● ●

• Verilog

● ● ● ● ●

SysAdmin

• Linux

● ● ● ● ●