

Rachele ROSSANIGO

03/22/1995 PAVIA (PV) ITALY

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WORK

**01/07/2020-
up to present**

Scholarship holder

Politecnico di Torino

Research topic: *Development of methods to evaluate the mobility and the posture with magneto-inertial sensors*

EDUCATION

**09/07/2017-
12/10/2019**

Master Degree in Biomedical Engineering

Politecnico di Torino

Thesis: *Analysis of spatial parameters during gait with magneto-inertial sensors and infrared proximity sensors*

Final grade 110/110 cum laude

**08/11/2014-
07/21/2017**

Bachelor Degree in Biomedical Engineering

Politecnico di Torino

Thesis: *Analysis of automated methods in immunohistochemistry studies*

Final grade 110/110 cum laude

2014

High school diploma: Maturità Scientifica

Final grade 100/100 e lode

INTERNATIONAL EXPERIENCE

**08/18/2018-
01/15/2019**

E+ /EU PROGRAMME COUNTRIES

KTH – Kungliga Tekniska Höskolan (Royal Institute of Technology)

Stockholm – Sweden

PROFESSIONAL EXPERIENCE

**03/22/2019-
12/10/2019**

Master Thesis Project

Politecnico di Torino – DET (Department of Electronics and Telecommunications)

Analysis of spatial parameters during gait with magneto-inertial sensors and infrared proximity sensors

**03/01/2017-
06/10/2017**

Internship

Politecnico di Torino – DET (Department of Electronics and Telecommunications)

Validation of an automated image segmentation algorithm for histological images

LANGUAGE SKILLS

Mother tongue	Italian
English	Understanding: B2 Speaking: B2 Writing: B2

COMPUTER SKILLS

Programming Language	MATLAB (advanced), C, Assembly
FEM	Nastran, Comsol
CAD	Patran, Rhinoceros, Solidworks
Programming Graphic Language	LabView
Classification and Optimisation Algorithm	Neural Network, Genetic Algorithms, Fuzzy Logic
Web Application Integrated Development Environment	App Inventor

PROJECTS

04/01/2019-01/07/2019	<i>Brain Computer Interface: Capacitive and piezoresistive pressure sensor applied to intracranial pressure monitoring</i> Politecnico di Torino
11/01/2018-01/15/2019	<i>How to place on the market a percutaneous coronary intervention kit with stent</i> KTH – Kungliga Tekniska Högskolan (Royal Institute of Technology)
08/18/2018-11/01/2018	<i>Make a measurement device with wireless communication: Programming a 'Micro:bit' and developing an App for smartphones for the heart rate monitoring</i> KTH – Kungliga Tekniska Högskolan (Royal Institute of Technology)
03/01/2018-07/01/2018	<i>Model of the growth of a thrombus in a venous vessel on Comsol</i> Politecnico di Torino
12/01/2017-02/01/2018	<i>Hardware and software development of a heart rate monitor</i> Politecnico di Torino – DET (Department of Electronics and telecommunications)