

# Europass Curriculum Vitae



## Personal information

First Name(s) / Last name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

**Davide Monsorno**

Via alla Malga, 1 - 38057 Susà di Pergine (TN), Italy

(+32) 0479 965891

davide.monsorno@uclouvain.be

Italian

May 13, 1989

## Educational background

HIGH SCHOOL

**Liceo Classico G. Prati**, Trento, Italy

[www.liceoprati.it](http://www.liceoprati.it)

Period

2003-2008

Principal subjects

Mathematics and Physics; Italian, Latin and Ancient Greek literature; German and English languages; History and Philosophy

Final grade

100/100

UNIVERSITY

**University of Pisa**

[www.unipi.it](http://www.unipi.it)

Period

2008-2011

Faculty

Aerospace Engineering, Bachelor

[www.ing.unipi.it](http://www.ing.unipi.it)

Final grade

110/110 with honors

Period

2011-2013

Faculty

Aerospace Engineering, Master

Final grade

110/110 with honors

**Sant'Anna School of Advanced Studies**

[www.sssup.it](http://www.sssup.it)

Period

2008-2011

Faculty

Industrial and Information Engineering, first level

Final grade

100/100 with honors

Period

October 2011 onwards

Faculty

Industrial and Information Engineering, second level

**Université catholique de Louvain**

[www.uclouvain.be](http://www.uclouvain.be)

Period

January 2014 onwards

Faculty

Ecole polytechnique de Louvain, PhD candidate

## Work experiences

March-October 2013; **Future Systems Division, MBDA Italy**

design, development and testing of new actuation strategies for asymmetrical acceleration of explosive-driven metal liners

January 2014 onwards; **Université catholique de Louvain**

Marie Curie ITN researcher at UCL; SEDITRANS project

## Research experiences

July-September 2010; **NASA Jet Propulsion Laboratory** [www.jpl.nasa.gov](http://www.jpl.nasa.gov)

- thermal and thermostructural simulations of electronic hardware components

- development of a modeling technique for steady-state quick temperature estimates on PCBs

**supervisor** Mohammad M. Mojarradi [mohammad.m.mojarradi@jpl.nasa.gov](mailto:mohammad.m.mojarradi@jpl.nasa.gov)

August-November 2011; **Space Structure Laboratory at Caltech** [www.caltech.edu](http://www.caltech.edu)

design, development and testing of a novel actuation concept for wrinkling suppression in piezo-electric PVDF membranes

**supervisor** Sergio Pellegrino [sergiop@caltech.edu](mailto:sergiop@caltech.edu)

January 2014 onwards; **Ecole polytechnique de Louvain** [www.uclouvain.be/epl](http://www.uclouvain.be/epl)

theoretical and numerical analysis of multiphase fluids and granular mixtures

**supervisor** Miltiadis Papalexandris [miltos@uclouvain.be](mailto:miltos@uclouvain.be)

## Research works

**First stage FEA characterization of thermal profiles for PCBs (2010)**

Authors Davide Monsorno Arsham Dingizian

**Wrinkling suppression in single-layer PVDF membranes by surface-distributed piezoelectric actuation (2011)**

Authors Davide Monsorno Sergio Pellegrino

**Explosive-driven asymmetrical mass acceleration in symmetrical geometries (2013)**

Author Davide Monsorno

## Engineering projects

**Conceptual and aerodynamic design of the X-AP1 UAV demonstrator (2012)**

Authors Davide Monsorno Matteo Loffredo

**Design of an actuated landing gear for the X-AP2 aerial surveillance UAV (2012)**

Authors Davide Monsorno Matteo Loffredo Giulio Proface

**Design of a quasi-1D Euler equation solver with an FVS finite volume method (2013)**

Authors Davide Monsorno Elena Barbarella

**Planning and coordination of the maiden flight of the X-AP1 UAV demonstrator (2013)**

Author Davide Monsorno

## Languages

Mother tongue

### OTHER LANGUAGES

*Self-assessment  
European level<sup>(\*)</sup>*

**English**  
**German**  
**French**

Certifications

## Computer skills

Software packages

Programming languages

### Italian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C1
B2	B1	B1	B1	B1
B1	B1	B1	B1	B1

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Zertifikat Deutsch (Goethe Institut, Council of Europe level **B1**)

Certificate of Advanced English (University of Cambridge, Council of Europe level **C1**)

Experience with

- CATIA CAD platform, Dassault Systèmes
- ABAQUS FEM modeling tool, Dassault Systèmes
- ANSYS FEM modeling tool, ANSYS
- MATHEMATICA computing software, Wolfram
- MATLAB computing software, MathWorks
- OFFICE package, Microsoft
- MIKTEK  $\LaTeX$  typesetting system

Experience with

- C
- MATHEMATICA