

## CURRICULUM VITAE

### PERSONAL INFORMATIONS



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Nationality	Italian
Date of Birth	11 <sup>th</sup> May 1983

## EDUCATION

Period September 1997 - July 2002  
Institute High school: "Liceo Scientifico Statale Galileo Galilei"  
Result 100/100

Period October 2002 – March 2006  
Institute Padova University – Institute of Mechanical Engineering  
Result Bachelor Graduation in Mechanical Engineering:  
99/110

Institute Padova University – Institute of Mechanical Engineering  
Matriculated to Master Course in Mechanical Engineering  
Specializing in Technology and Production

## PERSONAL SKILLS

MOTHER-TONGUE ITALIAN

## OTHER LANGUAGES

- ENGLISH
- Reading Level EXCELLENT
  - Writing Level EXCELLENT
  - Speaking Level GOOD
  - Extra school course Private English course with an English mother-tongue Teacher for 5 years
- GERMAN
- Reading Level GOOD
  - Writing Level BASIC
  - Speaking Level BASIC

## TECHNICAL ABILITIES AND SKILLS

### PROFESSIONAL EXPERIENCE

August 2005: One month of Internship (Practicum) by Weber Motor AG in Germany

### PRATICE

#### EXPERIMENTAL:

2003 Numerical methods:

- Implementation with Microsoft Excel of the following iterative scheme to solve non-linear equation: fixed point scheme, Newton Raphson scheme and Regula Falsi scheme. Comparison between these schemes based on their efficiency and convergence.
- Implementation with software Fortran of a program for solution of a linear system by relaxation method, determination of the optimum value for the relaxation factor and analysis of convergence.
- Interpolation and approximation of data with software Matlab.

2004 Measurements and mechanical metrology:

- Construction of a dynamometer realized by the measurement of stress and strain parameters of an aluminum shelf by using strain gauge and Wheatstone bridge. Study of the measurement uncertainty and evaluation of precision and accuracy of the instrument.
- Thermal measurement by using a thermocouple. Correlation between the sinusoidal input and the exponential output of the instrument. Calculation of the time constant of the exponent and determination of the instrument uncertainty.

#### PROJECTS:

2005 Machines:

- Project of a radial pump based on typical machine numbers and mechanical similitude, by fixing system head and flow as boundary conditions. Drawing with AutoCAD software.
- Project of a ventilator with backward curved blade based on typical machine numbers and mechanical similitude, by fixing system head and flow as boundary conditions. Drawing with AutoCAD software.

2005 Machines construction:

- Complete project and drawing of a reduction gear with; static calculation of flexion and torsion; dynamic calculation of fatigue resistance.

2006 Thermodynamic applied:

- Complete study of an heat exchanger

Fluid dynamic applied:

- Individuation of streamlines of a radial pump by divided differences method by relaxation step by step

Product Design for Manufacturing and Environment:

- Application to an object of the Design for Manufacturing Criteria and Methods

### TECHNICAL VISITS

2004 Metallic materials: Steel work Valbruna

2005 Centro Ricerche Fiat

2005 Complete visit of Weber Motor AG and Albert Weber GmbH production line in Markdorf and Neuenbürg, Germany

2006 Industrial systems: Kosmo

2007 Assembly technology and systems: Askoll 5 for automatic assembly, Achille Tommasetto for manual assembly

### OTHER EXPERIENCES

2007 Member of a five person team for Logistic Game: Warehouse Design Competition, for Kosmo company organized by Becoming Manager

[www.becomingmanager.com](http://www.becomingmanager.com)

BACHELOR THESIS	<p>SUBJECT: Manufacturing Technologies</p> <p>TUTOR: Prof. Ing. Stefania Bruschi</p> <p>TITLE: Concept for the integration of a cylinder bore coating process into an engine block manufacturing plant</p> <p>NOTE: Written in English by the German company Weber Motor AG</p>
COMPUTER KNOWLEDGES	<p>Microsoft Windows</p> <p>Microsoft Office (Word, Excel, Power Point, Access)</p> <p>License by ECDL course (European Computer Driving License).</p> <p>Fortran</p> <p>AutoCAD basic knowledge</p> <p>Matlab basic knowledge</p> <p>Forge and Q-CAD</p>
ABILITIES AND SKILLS	<p>Very interested in Concurrent engineering methods as DFX (Design for) and in management of innovation and development.</p> <p>I'm very keen to achieve responsibility roles in my activities.</p> <p>During the high school I have been Class Representative.</p> <p>At present I live in a Student Campus where I have been:</p> <ul style="list-style-type: none"> <li>• Member of the internal Board of students as students' representative;</li> <li>• Music Room administrator and Barman of the Campus Bar.</li> </ul>
HOBBIES	<p>I love music and cinema and traveling around the world to get in touch with different cultures.</p> <p>In the free time I practice fitness and swimming.</p>
MILITARY SERVICE	<p>Not required.</p>
DRIVING LICENSE	<p>I achieved "B" license in September 2001</p>
REFERENCES	<p>Gregorianum Campus Via Marcel Proust , 10 35128 Padova - ITALY Tel: +39 049 75 60 11 <a href="mailto:gregorianum@libero.it">gregorianum@libero.it</a> <a href="http://www.gregorianum.it">www.gregorianum.it</a></p>