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# Alessandro Mazza

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## Professional profile

A dynamic professional with a strong passion and a highly successful background in machine design, analysis and computational mechanics. Focused on challenging projects and innovative mechanics, is a real added value to a group: motivated, reliable, confident, efficient and technically prepared. Possesses excellent communication skills and enjoys being part of a team, especially in hard-pushed and demanding working environments.

## Professional experiences

<b>Date</b>	<b>November 2015 - Present</b>
Company	<i>3P Innovation</i> (Warwick, UK), supplier of bespoke machines for pharmaceutical companies.
Employment	Project engineer and project manager
Skills	Mechanical design, technical drawing, R&D, testing, machining, assembly, project management, documentation, quality control, root cause analysis, consultancy.
Results	Identified root cause that blocked the production of a life saving medicine for children
<b>Date</b>	<b>March 2013 - October 2015</b>
Company	<i>G.D</i> (Bologna, Italy), world-leading supplier of high-technology automated machinery.
Employment	CAE analyst and mechanical designer
Skills	Multibody and kinematic analysis, FEA analysis, mechanical design, R&D, motors control, components calculation, synthesis of mechanisms, motion profiles, technical drawing.
Results	<ul style="list-style-type: none"><li>- E-motors precision increased by 50%</li><li>- E-motors power consumption decreased by 50%</li><li>- Several machine speed increases (up to 30%)</li><li>- Several set-up time decreases (up to 50%)</li></ul>
<b>Date</b>	<b>January 2012 - March 2013</b>
Company	<i>Silicon Biosystems</i> (Bologna, Italy), whose <i>DepArray</i> system is the only automated instrument that can identify, quantify and recover individual rare cells.
Employment	Industrialization project leader
Skills	Customer support, manufacturers and suppliers support, production workflow management, testing, product development, product installation, documentation.
Results	<ul style="list-style-type: none"><li>- Machine production issues decreased by 80%</li><li>- Machine time to market decreased by 40%</li><li>- Customer issues solving time decreased by 20%</li><li>- Installation time decreased by 50%</li></ul>
<b>Date</b>	<b>September 2011 - November 2011</b>
Company	<i>Dallara Automobili</i> (Varano Melegari, Parma, Italy), world-leading race car builder.
Employment	R&D apprentice (high-performance driving simulator office)
Skills	Multibody analysis, forward and inverse kinematics, analysis and optimization of motion cueing algorithms, software development.
Results	Driving simulator performance increased by 15%
<b>Date</b>	<b>June 2010 - October 2011</b>
Company	<i>Savi Chem</i> (Fiorenzuola d'Arda, Piacenza, Italy), distributor of heating systems.
Employment	Mechanical designer (design of an innovative outdoor heater)
Skills	Mechanical design, testing, prototype production.
Results	Production of an outdoor heater prototype that produces the same heat with a lower cost of exercise.

## IT knowledge

Program	Area	Knowledge
Solidworks	3D Technical drawing	Excellent
Inventor	3D Technical drawing	Excellent
Pro-E/Creo	3D Technical drawing	Excellent
Autocad	2D Technical drawing	Excellent
Cadra	2D Technical drawing	Excellent
Dymola	Multi-engineering modelling	Excellent
Pro Mechanical	FEM	Excellent
Abaqus CAE	FEM	Excellent
Visual basic/VBA	Programming	Good
Matlab	Programming	Good
KissSoft	Machine elements sizing	Good
Oracle	DBMS software	Good
PdmLink	PDM software	Good
Vault	PDM software	Good
Mantis bugtracker	Bugtracking	Good
Latex	Document production	Good

## Education

<b>Date</b>	<b>October 2012</b>
<b>Place</b>	<i>University of Parma</i> (Parma, Italy)
<b>Title</b>	Professional Practice Examination (Industrial Engineering section A).
<b>Date</b>	<b>December 2011</b>
<b>Place</b>	<i>University of Parma</i> (Parma, Italy)
<b>Title</b>	MSc in Mechanical Engineering with first class honours
<b>Thesis</b>	<i>Motion cueing algorithm in a racing car driving simulator</i> , realized in partnership with R&D office of <i>Dallara Automobili</i> , Varano Melegari, Parma, Italy. Advisor: Prof. Alessandro Tasora.
<b>Date</b>	<b>October 2009</b>
<b>Place</b>	<i>University of Parma</i> (Parma, Italy)
<b>Title</b>	BSc in Mechanical Engineering with first class honours
<b>Thesis</b>	<i>K factor determination in plate bending</i> , realized in partnership with <i>Nuova Isam</i> , Alberi di Vigatto, Parma, Italy. Advisor: Prof. Alessandro Pirondi.

## Spoken languages

<b>Language</b>	<b>Italian</b>
<b>Level</b>	Mother language
<b>Language</b>	<b>English</b>
<b>Level</b>	Full professional proficiency (C1)
<b>Notes</b>	<i>First certificate in English</i> certification (Council of Europe B2), issued in August 2005 by <i>University of Cambridge, ESOL Examinations</i> .
<b>Language</b>	<b>Spanish</b>
<b>Level</b>	Full professional proficiency (C1)
<b>Language</b>	<b>French</b>
<b>Level</b>	Professional working proficiency (B2)

## Other

- Driving license: full, clean
- Authorised to work permanently in the UK
- Authorised and willing to travel internationally