

# CURRICULUM VITAE

**Marco Riva**

February 19

## Personal Information:

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<b>Name</b>	Marco	<b>Surname</b>	Riva
<b>Date of birth</b>	19 October 1979	<b>Gender</b>	Male
<b>Address</b>	Via San Bernardino, 9 22030 Longone al Segrino Como Italy		
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<b>Nationality</b>	Italian		

## Skills Summary:

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- ✓ **CAD 3D Software:** Inventor (Advanced), Solidworks (Expert), Pro Engineer (Advanced), Co Create (Advanced); VeroVisi CAD-CAM (Learner/Beginner), Autocad (Advanced);
- ✓ **FEM Software:** Altair HyperWorks (Learner/Beginner), Ls-Dyna (Learner/Beginner), Abaqus (Learner/Beginner), Solidwoks Simulation (Expert)1; ANSYS (Expert);
- ✓ **CAM Software:** Powermill (Learner/Beginner), PACW (Learner/Beginner);
- ✓ **PLM Software:** Windchill (Advanced);
- ✓ **ERP Software:** SAP (Advanced), Navision (Expert);
- ✓ **Editor/Image software:** Office (Expert), LaTeX (Advanced), Photoshop (Advanced);
- ✓ **Programming/Scripting Languages:** C++, HTML, PHP (Learner/Beginner);
- ✓ **Operating Systems:** Windows (Expert).

## Education:

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- ✓ **2011 & 2016**  
ANSYS course;
- ✓ **2010 - 2012**  
English course;
- ✓ **2009**  
Course: Pro Engineer Wildfire 4.0;
- ✓ **2008**  
Course: Solidworks 2008;
- ✓ **2006**  
Course: Autocad 2007 Mechanical Desktop e Inventor 11;
- ✓ **2005**  
Course: Autocad 2006 Mechanical Desktop e Inventor 10
- ✓ **1998 – 2004 Politecnico di Milano, Italy**  
Degree: Mechanical Engineering – Automation and robotics;  
  
Thesis title: "Evaluation of impact in relation to the automobile physical damage on virtually subjects involved."  
Finite elements study of dynamic impacts between four-wheel vehicles with modeling of the car and a passenger on board. - Evaluation: 90/100;
- ✓ **1993 – 1998 High School, scientific, Galileo Galilei, Erba, Italy**  
Evaluation: 50/60

## Language:

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- ✓ Italian - Mother tongue;
- ✓ English - Fluent written and spoken.

## Employment History:

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### Medacta International sa

Dec 2018 - Present

*Manager IBDF & TLS (Intervertebral Body Fusion  
Device and Thoraco-Lumbar Spine)  
R&D Spine Division*

#### **Description:**

Supervise and coordinate the IBFD & TLS team during the development and engineering of IBDF & TLS medical devices and related instruments, for spinal surgery to accomplish the objectives define with the R&D Spine Director.

#### **Main activities:**

- ✓ Coordinate the IBFD & TLS team to reach the objectives
- ✓ Plans and coordinates development projects that are completed within cost objectives and times schedules
- ✓ Interface with clinical advisors to gather input and review the design of implants and instruments
- ✓ Perform preliminary patent analysis
- ✓ Report on a periodical base project status and on-going activities
- ✓ 3D Modeling of implant and instrumentation design (Solid Works)
- ✓ Development of prototypes for design verification and validation
- ✓ Prepare appropriate project plan as well as project related documents e.g. Risk Analysis according ISO 9001, ISO 13485 and FDA Guidance
- ✓ Collaborate with internal and external manufacturer to transfer the designs into production
- ✓ Support of external partners for product testing
- ✓ Support the marketing/field during the alpha launch of a new system
- ✓ Failure analysis and problem solving
- ✓ Support in submission of medical device for CE approval, FDA approval, PMDA approval

#### **Achievement Highlights:**

- ✓ Supervision of IBFD team to introduce improvements in instrument sets for Posterior, Transforaminal and Anterior approach of spinal surgery

#### **Increase knowledge:**

- ✓ Standards for CE, FDA, PMDA submission

## **Medacta International sa**

*Manager IBDF (Intervertebral Body Fusion Device)  
R&D Spine Division*

**May 2015 – Dec 2018**

### **Description:**

Supervise and coordinate the IBFD team during the development and engineering of IBDF medical devices and related instruments, for spinal surgery to accomplish the objectives define with the R&D Spine Director.

### **Main activities:**

- ✓ Coordinate the IBFD team to reach the objectives
- ✓ Plans and coordinates development projects that are completed within cost objectives and times schedules
- ✓ Interface with clinical advisors to gather input and review the design of implants and instruments
- ✓ Perform preliminary patent analysis
- ✓ Report on a periodical base project status and on-going activities
- ✓ 3D Modeling of implant and instrumentation design (Solid Works)
- ✓ Development of prototypes for design verification and validation
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### **Achievement Highlights:**

- ✓ Supervision of IBFD team to introduce improvements in instrument sets for Posterior, Transforaminal and Anterior approach of spinal surgery

### **Increase knowledge:**

- ✓ Standards for CE, FDA, PMDA submission

## **Medacta International sa**

*Project Manager R&D Spine Division*

**May 2011 – May 2015**

### **Description:**

Develop and engineer medical devices and related instruments for spinal surgery under the supervision of R&D Spine Director.

### **Main activities:**

- ✓ Plans and coordinates development projects that are completed within cost objectives and times schedules
- ✓ Interface with clinical advisors to gather input and review the design of implants and instruments
- ✓ Perform preliminary patent analysis
- ✓ Report on a periodical base project status and on-going activities
- ✓ 3D Modeling of implant and instrumentation designs (Solidworks)
- ✓ Development of prototypes for design verification and validation
- ✓ Prepare appropriate project plan as well as project related documents e.g. Risk Analysis according ISO 9001, ISO 13485 and FDA Guidance
- ✓ Collaborate with internal and external manufacturer to transfer the designs into production
- ✓ Support of external partners for product testing
- ✓ Support the marketing/field during the alpha launch of a new system
- ✓ Failure analysis e problem solving

### **Achievement Highlights:**

- ✓ Development of implant an instruments for Intervertebral Body Fusion Device for Anterior approach (Patent WO2014125428 - Intervertebral implant with improved shape of the fixing plate)
- ✓ Development of implant an instruments for Intervetebral Body Fusion Device and Pedicle Screw System

**Consolidated skills:** Solidworks, Navision

### **Increase knowledge:**

- ✓ Standards for biomechanical tests
- ✓ Behaviour and characteristics of Medical Grade Material
- ✓ Behaviour and characteristics of Stainless Steel
- ✓ Processing of milling, turning, blasting and whirling

## **Eldor Corporation spa**

*Mechanical Project Engineer*

**November 2007 - April 2011**

### **Description:**

Develop and engineer ignition coil under the supervision of R&D Mechanical Director.

### **Main activities:**

- ✓ 3D Modeling of ignition coils designs (Co-Create, Solidworks, Pro Engineer)
- ✓ Development of prototypes for design verification and validation
- ✓ Report on a periodical base project status and ongoing activities
- ✓ Collaborate with internal and external manufacturer to transfer the designs into production
- ✓ Prepare appropriate project related documents e.g. Risk Analysis according ISO 9001
- ✓ Failure analysis e problem solving

### **Achievement Highlights:**

- ✓ Development of Ignition Coil Plug Top design for VW, Audi, Nissan-Renault
- ✓ Development of Ignition Coil Pencil Coil design for BMW, BMW Motorrad

**Consolidated skills:** Co-Create, Solidworks, Pro Engineering, Windchill, SAP

### **Increase knowledge:**

- ✓ The rules for the development of an high voltage device
- ✓ The behaviour and characteristics of plastic material, rubber and brass
- ✓ The process of plastic injection moulding, brass bending and coniage

**Dell'Orto spa**

*R&D Director Assistant*

**March 2007 - November 2007**

**Description:**

Assist the R&D Director in the evaluation of the technical modification of the products

**Main activities:**

- ✓ Evaluate the feasibility of technical modification on products
- ✓ Prepare appropriate project related documents according ISO 9001
- ✓ Supervise the introduction of the modification in the technical drawings and in production
- ✓ Prepare the template for a project development

**Increase knowledge:**

- ✓ ISO 9001 standard

## **Milk Project Food Engineering srl**

*Project Manager*

**November 2004 - March 2007**

### **Description:**

Develop of industrial plant for automatic processing and manipulation of milk and cheese under the supervision of an R&D Director

### **Main activities:**

- ✓ 2D Modeling plants (Autocad)
- ✓ 3D/2D Modeling machinery for the plant (Inventor, Autocad)
- ✓ Collaborate with internal and external manufacturer to transfer the designs into production
- ✓ Supervise the realization of machinery
- ✓ Supervise the installation and start up of the plant
- ✓ Prepare appropriate project related documents according ISO 9001 and ISO 13849

### **Achievement Highlights:**

- ✓ Development different plants particularly for marble cheese

**Consolidated skills:** Inventor, Autocad

### **Increase knowledge:**

- ✓ The rules for the development of a food and beverage plant
- ✓ The behaviour and characteristics of stainless steel (AIS 304, 316)
- ✓ The process of milling, bending and welding of stainless steel



## **Plast Project srl**

*Mechanical Designer*

**March 2004 - November 2004**

### **Description:**

Design and develop and of plastic injection mould under the supervision of an R&D Director

### **Main activities:**

- ✓ 3D/2D Modeling mould (VeroVisi CAD/CAM)
- ✓ Preparation of CAM program
- ✓ Supervise the realization of mould
- ✓ Prepare appropriate project related documents according ISO 9001

### **Achievement Highlights:**

- ✓ Development and realization of mould for plastic components of ignition coil, switch and television coil

**Consolidated skills:** VeroVisi CAD/CAM, Powermill, PACW

### **Increase knowledge:**

- ✓ The rules for the construction of a plastic injection mould t
- ✓ The process of turning, milling, EDM and wire EDM

*In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.*