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Mechanical Engineer

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EXPERTISE

PRODUCT DESIGNER: from sketch to completion. From single unit to big series; fulfilling customers specifications and budget with creativity and innovation. Tailor made projects.

PROJECT MANAGER: an assertive and independent team leader. Flexibility and strategy to reach deadlines in different environment and conditions.

CAD DESIGNER: Autocad from the 12 DOS version to 2007, 3D with ProEngineer Wildfire and Creo 1.0.

COMPANY UPGRADER: driving companies from older technologies to modern ones (e.g.):

- In USA a stainless-steel cabinets factory upgraded to laser cut and CNC bending.
- A '50 glass mold company to a CNC semi-automatic manufacturing.
- A brand-new division of compressor-skid manufacturing for Oil & Gas, setting a new design and manufacturing method.

WORK EXPERIENCE

2016-Today

CONSULTING, PROJECT MANAGER & MECHANICAL DESIGNER

Freelance Mechanical Engineer Mendoza (Argentina)

VITER INDUSTRIAL

Local representative of Oerlikon Coating

Transportable Compact System for Steel Shot Blasting, with Recovery and Cleaning for a continuous blasting operation.

August 2013 - Today

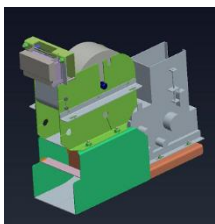
COMBUSTION CHAMBER DESIGNER

Freelance Mechanical Engineer Amsterdam (The Netherlands), Milan (Italy), Mendoza (Argentina)

- Established in Milan where in August 2013 I started a thoroughly research about the ICE technologies to reach the tight values of the emission law in Europe and USA.
- The evidence concludes that the best and economical way to pave the way to the massive electrification in 35 years is the Low Temperature Combustion (LTC).
- Research about LTC and the enormous advantages regarding lower fuel consumption and low emissions. Study of the try-outs of all the different strategies by Universities and Motor-Companies and acknowledge of the main issues that prevent this technology to be the next evolution of the Internal Combustion Engine.

- Design of a new concept of combustion chamber where the LTC can be perform without any of the problems that limit it massive use.
- Held demonstration in March 2014 to a high European Commission officer in Milan, who conclude the new approach is totally feasible and instructs me about make a partnership with a European Company Related in order to get funding.
- Established in Amsterdam in June 2014, from where I traveled to London and held a meeting with one of the best expert in LTC worldwide: Prof. Hua Zhao, from the Brunel University. This prestigious researcher concludes the design is totally workable and possible.
- Meeting with Peter van Gompel, from TNO in Helmond, The Netherlands.
- Returning to Milan in November 2014, held meetings with various investors.
- Working in the first round of calculus and basics animations, all indicates the full feasibility of the model.
- Today in Mendoza, Argentina working in the PTC class patent (WIPO).

September 2007- May 2013



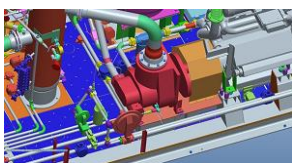
PROJECT MANAGER & PRODUCT DESIGNER

MYT IND S.A. (former MYTSA)
Electronics & electromechanical devices

Mendoza (Argentina)

- Contactless card credit charge totem. Approx. US\$ 2.7 million
- Antitheft pneumatic valve for gas trailers. More than 20000 sold.
- High sensitive Pressure Switch. More than 20000 sold.
- Design antitheft devices for public and private transport
- Prototyping to manufacture development.

August 2006 - September 2007



PROJECT MANAGER & PLANT DESIGNER, Gas compression

Palmero San Luis S.A.
Electrical Generators & Gas compressor factory

San Luis (Argentina)

- Launching the technical office for air and gas compression.
- Team management.
- Pre-commissioning and commissioning attendance.
- Natural gas compression plant for PAE. Approx. US\$ 290 k
- Natural gas compression twin plants for PACIFPETROL. Approx. US\$ 600 k
- Natural gas compression plant for SIPETROL.

February 2005 - August 2006

OWNER OF ELECTRONICS SALES WEBSITE, Imported goods

Mendotronix.com

Mendoza (Argentina)

April 2004 - August 2004

PROJECT MANAGER & PRODUCT DESIGNER, Conveyors

Transportadores y Construcciones Ind.
Conveyors factory

Monterrey(México)

- Continuous Cardboard Box closer project.
- Supervise project for CAT foundry in Saltillo.
- Assembly in American Standard, Mexico DF.
- Customer advice for tailor-made conveyors and special devices.

July 2001 - February 2004

CAD-CAM & PROJECT MANAGER, Plastic molds

A & G Plastic Technologies
Plastic Mold maker with injection plant

Miami, Florida (USA)

- CAD 3D part design from original blueprints or customer requirements.
- Mold material request, tool choice.
- CAM Postprocessor and fixture design for CNC mill.

- Graphite design for EDM.

January 2001 - July 2001

PROJECT MANAGER & AUTOCAD DESIGNER, Stainless Steel Cabinets

Infinity Cabinets USA, Inc.
Factory of High End Stainless Steel Cabinets
(I had a H1B work visa issue by the US government)

Miami, Florida (USA)

- Changing the manufacturing plant, all the machines and methods.
- Design and making of more than 1400 AUTOCAD drawings for laser-cut.
- Advisor in CNC press-brake acquisition.

PERSONAL SKILLS

Mother tongue **Spanish**

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B1	B1	B1

Computer Skills:

-3D CAD CREO
 -3D CAD ProEngineer
 -3D CAD-CAM MasterCam
 -3D CAD-CAM Virtual Gibbs
 -3D CAD-CAM Xcad Desktop
 -AUTOCAD R12, 14, 2000, 2004 & 2007
 -Office Pack: Excel and Word.

Tools knowledge:

-CNC lathe, CNC mill: 3 and 4th axis
 -Press Brakes, lathes, mills, EDM
 -Welding: MIG, TIG, GMAW and Rod.
 -Jig, fixtures.

August 1996 – September 2000

DESIGN ENGINEER, Glass mold, Special projects

Moldes S.A. (former Rigazzi Industries)
Glass and PET mold factory

Mendoza (Argentina)

- changing the way to make a mold project: doing an AUTOCAD drawing base. In use at the present time.
- transforming an old factory with '50 lathes to a modern company with CNC lathes and mills.
- making complex bottle mold using tailored cutting tools.
- designing a successful PET bottle project for PEPSI COLA INTERNATIONAL.

September 1995 – July 1996

FREELANCE, Engineering Consultant

Mendoza (Argentina)

- designing grape must concentrator in stainless steel. Approx. U\$S 300 k..

- o measuring in Malargue, Mendoza, all the YPF oil pumps in order to make drawings for pulleys cover and fences.
- o giving advice for chocolate factory, chemical and petrochemical industries.

January 1995 - August 1995

DESIGN ENGINEER, Trailers.

Mendoza (Argentina)

Maldonado SACI

Trailers factory

- o my first project in AUTOCAD, a 45 ton. trailer for oil company services.
- o lightening a trailer: a curtain sider project
- o I also worked improving the lay out doing working cells.

February 1992 - December 1994
(Argentina)

DESIGN ENGINEER, Scissor lift, conveyors

Mendoza

Movin SA

Conveyors, heavy elevators, scissor lift.

- o making of all special custom tailored projects, conveyors belts,
- o designing hydraulic scissor lift, hydraulic dock equalizer.
- o creating washing machine for plastic boxes for CHANDON
- o Hydraulic axis clearance detector for trucks diagnoses.

The work history it's shortened in order to brief the CV.

My first job was one month after my diploma, in may 1991

EDUCATION

1985 - 1991

MECHANICAL ENGINEER
UTN (Universidad Tecnológica Nacional)

Córdoba (Argentina)