



CURRICULUM VITAE

DANIELE TODARO

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EDUCATION & TRAINING

September 1995 – July 2000:

High school diploma (DSE - diploma) "Industrial Engineer"
Technical institute "E.Majorana" of Melzo, Score: 95/100

September 1998 – July 2000:

Two year post graduated course "Mechanical R&D Engineer"
Technical Institute "E.Majorana" of Melzo, Maximum score

September 1995 – June 1998:

Three year vocational course "engineering vehicle"
Major in "injection systems and turbocharged "
Technical school of Gorgonzola, Maximum score with honours

WORK EXPERIENCE

October 2010 – Today:

I joined FAI Filtri (Industrial filtration company) in 2010, to support the mechanical design engineering (R&D) within the business.
I am responsible for a new branch of FAI filters, for the development and production of components for compressors.
I am mechanical design engineer and project leader. I usually work with laboratory, where I do tests, prototypes and research.
I am also responsible for production technology in order to develop new methods and new machines for a production optimization.

May 2007 – October 2010:

I joined OARA (one of Atlas Copco's partners) In 2007. The core business of this company is based on drilling rigs machines used for underground and surface drilling, and its production is an exclusive for Atlas Copco.
I was responsible of engineering of "MUSTANG Series" and I designed every components of these machines.
I designed the main frames, auxiliary frames, and every single carpentry parts.
I designed all sheet metal parts, fuel tank, body, cover parts, control panel box.
The core of these machines is the rotary head, a gear box designed to develop a torque from about 5000Nm to 13000Nm, depending by models.
I designed gears and shafts, looking for best materials and treatments ensuring that they had essential features such as high wear resistance and fatigue Hertzian (pitting); high fatigue resistance to bending at the base of the teeth; High impact strength; good workability for shaving removal and attitude to surface heat treatments.
The materials commonly used for this products were: case-hardened steel; hardened and tempered steel; nitriding steel.
The explained characteristics assure an hard surface and a good tenacity of the gears.
I also followed the develop and designing of sleds, hydraulic cylinders, engine cabin, mudguard, crawler connections, all precision mechanical parts using tight tolerances.
I did also mechanical calculation wherever necessary.
I followed customers in their requirements and I designed a large amount of customized machines.
In many cases I put all components together from an idea or a sketch.
I also edited all technical documentation.

January 2005 – May 2007:

I joined Impresind in 2005, an Heating, cooling and ventilation company, to support design the engineering, R&D within the business.
I was responsible for the engineering of adiabatic cooling machines "COLDAIR Series".
We decided to use the adiabatic system (based on Mollier's diagram) because it is very efficient and cheap, specially indicated for industrial and commercial buildings, wherever there is need to cool large volumes.
I was also responsible for laboratory; I built and tested all prototypes by myself.
I've trained workers and I was head of "cooling" production line. I was also head of installation service and customer service.
I've developed the control software, starting from a PLC, developing an electronic card in the second step.
I edited all user's and maintenance manuals, and all technical documentation.

April 2002 – January 2005:

I joined E.C. in 2002 an engineering company as a freelancer.
I was responsible for supporting the mechanical design engineering to other companies; some of the products developed were based on: cattle treatment machines; tanneries machines; industrial presses; plastic moulded components; sheet metal components; high precision mechanical components; light and heavy carpentry.
I helped these companies to develop their products from the idea to the realization, finding the best solutions for them and for the market.
I was also AutoCAD and 3D modelling trainer consultant.

September 1999 – April 2002:

When I was attending my last year at school, Synergon hired me to support the mechanical design engineering within the business. They chose me because of my scholastic profit and my knowledge in CAD software and 3D modelling.
I was responsible for the mechanical design of "moulded slip rings" and "cable reels". I was also responsible for research and development working close to the production in cooperation with some of the most experienced figures in this field. One of my principle roles was to built new project specifics in order to help my colleagues to design the products following a common and efficient project line.
I edited all user and maintenance manuals, and all technical documentation.

IT and OTHER KNOWLEDGE

Drawing software

- Autodesk AutoCAD: 2D & 3D (and similar)

3D Modelling software

- Autodesk INVENTOR (Independent coursework)
- Pro/Engineer (Coursework at Randit)
- SolidEdge (Independent coursework)
- SolidWorks (Independent coursework)
- Alibre (Independent coursework)

Microsoft Office (word, excel, power point), OpenOffice , Works and similar.

Graphical software (photoshop, photos, photoed, gimp.)

PLC (programming software)

FEM (Finite Element Method): basic knowledge

FMEA (failure modes and effects analysis)

LINGUISTIC KNOWLEDGE

Mother tongue: **Italian**

Other language: **English**

Read: good

Write: good

Speak: good

Other language: **French**

Read: scholastic level

Write: scholastic level

Speak: scholastic level

External web links to some of my projects:

My actual occupation at FAI Filtri
<http://www.faiifiltri.it>

At OARA for Atlas Copco
<http://www.atlascopco.com/usus/products/navigationbyproduct/productsearch.aspx?q=Blast%20Hole%20Drill%20Rigs>

At Impresind
http://impresind.it/home.php?pag=scheda_coldair.php&lingua=ing

At Synergon for COMES
<http://www.comes-italia.it/ENG/stampati.htm>