

## ENGINEERING PROFILE

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Accomplished engineer with a proven track record and reputation. With over 20 years spent cultivating a robust base of expertise in the steel manufacturing sector, I have had dynamic roles that include metallurgic and chemical testing, quality control and chemical waste/purchase management.

Experienced in heat treatment, failure analysis, material selection, electrochemistry and welding processes. Maximising efficiency in production, identifying and solving quality deficiencies.

## PROFESSIONAL EXPERIENCE

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### **Ajax Tocco Ltd**

Position: Heat Treatment Manager

**Nov 2021 - Present date**

Birmingham, UK

- Running the Induction Heat Treatment Department, developing new processes, including machine programming and design of jig and fixtures.
- Maintenance of the Quality Control System and the Inspection Department (Metallurgical tests)
- Continuous improvement of existing processes and equipment, invigorating a maintenance plan for the shopfloor.
- Preparing quotations for new jobs, increasing customer base and overall sales, liaison with existing and potential customers, advising and writing technical reports, implementing the use of quality tools (5 Why's, 8D, Control Plan, PPAP, FMEA, etc)
- Providing technical support to the sales, manufacturing and quality department.
- Recruitment process and labour training

### **Hauck Heat Treatment (ex TTI Group Ltd, Nitrotec)**

Position: Quality Engineer

**Mar 2005 - Nov 2020**

Birmingham, UK

- Designing, execution and testing of heat treatment for aerospace clients e.g. Rolls Royce, etc.
  - Furnace temperature survey.
- Management of metallurgic and chemical lab, responsibilities include:
  - Oversight of calibration and maintenance folder of lab equipment.
  - Updating and improving the lab testing manual.
  - Hazardous chemical management, purchase-testing-storage and disposal.
  - Metallurgical tests: Microstructure, hardness, white layer reading, calo test, bend test, roughness surface reading, welding visual inspection with ink.
  - Expertise with mild, tool and stainless steels, cast iron, sintherized metals, titanium.
  - Chemical tests: Salt spray & humidity test, oil concentration, pH and water hardness reading, thermal test and chemical solutions preparation.
  - Personnel training, a dozen operators trained to carry out metallurgical testing.
- Plant quality control, customer liaison (research and technical reports).
- Advanced quality documentation and accountable to ISO 9000, TS16949, FCAP, NCR, RCA, SPC, PPAP

### **Nedcar (Automotive factory)**

Position: Quality Control Engineer

**Apr 2004 - Dec 2004**

Born, Holland

- Quality control on production plant of Mitsubishi car doors (polycarbonate).
- Running statistical process control.
- Supervision of door assembly line, uncovering defects and inspection procedures.

### **DSM (Rubber Plant)**

Position: Quality Control Engineer

**Jun 2003 - Feb 2004**

Geleen, Holland

- Quality control in the rubber production plant EPT3.
- Responsible for adequate corrective measures in production shortcomings.

### **DSM (R&D Department)**

Position: R&D Engineer (Corrosion Engineer)

**Nov 2001 - Jun 2003**

Geleen, Holland

- Electrochemical testing on stainless steel and material consultancy.
- Providing corrosion risk management to different plants of the company.

**University of Genoa (R&D Department)**

Position: R&amp;D Engineer

- Researching a diffusion process on silver and aluminium surface.
- Working with a chamber at high vacuum level.

**Mar 2001 – Jun 2001**

Genoa, Italy

**ENRE**

Position: Junior Engineer

- Supervisor of defects on electric installations.
- Providing maintenance report.

**Aug 2000 – Jan 2001**

Buenos Aires, Argentina

**TYCSA**

Position: Junior Engineer, Thesis Work

- Production supervision (in charge of timing and method studies).
- Welding supervision (cost calculation, quality control X-ray with carbon steel and SS, different processes: Tig, Saw, Fcaw and Smaw).

**Mar 1999 – Mar 2000**

Buenos Aires, Argentina

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**EDUCATION****Instituto Sábato, Argentina****MSC Hons Material Engineering**

Grade: First Class Honours

**1996 –2000****University of Buenos Aires, Argentina****BSC Hons Physics**

Grade: First Class Honours

**1992 –1996**

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**COMPLEMENTARY STUDIES**

Fork-Lift licence, Birmingham, UK

**2010**

FCD (First Certificate Degree on English language), Brasshouse, Birmingham, UK

**2008**

VCA (Safety &amp; Quality certificate), DNV Certification (30456-2002), Holland

**2002****Technology of polymers**, INTI, Argentina**1998-2000**

Metallographic preparation and failure analysis, Argentina

**1999**

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**LANGUAGES**

Spanish

*Native language*

English

*Speak, read and write fluent*

Italian

*Speak, read and write fluent*

Portuguese

*Speak and read fluent*

Dutch

*Basic knowledge*