

Ali Hefzorrezaei

English/French/Persian

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Highlights of Qualifications

Specialization:

- Certified Quality Engineer and member of American Society for Quality
- Lean Manufacturing specialist using Six Sigma, FMEA, QFD, SPC, etc.
- Fully skilled in working with metallurgical examination equipment accordance with standard references like ASTM, ASME, DIN, JIS
- Mastery in Geometric Dimensioning and Tolerancing (GD&T)
- Fluent in Epicor ERP System

Area of work experience (over ten years):

- Manufacturing / QA / QC and R&D for OEMs in the Automotive Sector
- Process Development and Continuous Quality Improvement
- Project Management to achieve a sustainable competitive advantage
- Completely familiar with the automotive production lines

Professional Experience:

Metallurgist at Quality Department

Feb.2018

Valtech Fabrication Co. Montreal, Quebec

–Present

- ✓ Obtained a successful 5S plan as a start point to implement lean project in the metallurgical laboratory
- ✓ Accomplished Poka-Yoke as a mistake-proofing tool to ensure compliance in reports.
- Carried out numerous metallurgical tests including PMI on a wide range of steels and super alloys applied in huge FCC Cyclones which are working in high temperature at refineries
- Employed Design of Experiment technique to distinguish the main factors affect the results and eliminated factors without compromising reliability
- Generated reliable technical reports using tracing techniques for finding the root causes of NCRs

Senior Technical Engineer

2004 –

Partretech Co. Tehran, Iran

2017

- ✓ Applied some innovative methods in the process such as “Metallography without Destruction” which was invented by me and has been registered in National Organization of Patents in Iran
- ✓ Conducted an exact examining for 11 months concluding $17\pm5\%$ growth in amount of output (by 95% confident level) due to 8% increase in cost of wage as an additional reward
- Established and directed temporary/permanent metallurgical laboratories based on ISO 17025
- Reviewed and endorsed ITP for Original Equipment Manufacturers (OEMs)

Education

MEng in Quality Systems Engineering	Winter
Concordia University – Montreal, Quebec	2019
Executive – Master of Business Administration (E-MBA)	Winter
Iran University of Science and Technology (IUST) – Tehran, Iran	2009
Bachelor of Science, Industrial Metallurgy Engineering	Winter
Iran University of Science and Technology (IUST) – Tehran, Iran	2001

Certifications

Certified Six Sigma Green Belt (CSSGB) & Certified Quality Engineer (CQE)	
American Society for Quality (ASQ), USA	2018/2019
Certified XRF Expert	
NRC an NDT- Montreal, Quebec	2018
Ultrasonic Testing Level I & II	
QAL UK LIMITED, Tehran, Iran	2017
Positive Material Identification (PMI)	
SPECTRO Company, Kleve, Germany	2004

Patents & Publications

Invention Registration:

- Metallography without destruction - National Patent Registration Org., Iran 2006

Paper:

- Study of Frictional Wear Factors in Automobile Drum Alloy and Optimum Lifetime by Adding Ferro Chromium, “Iranian Foundry Society”, Tehran, Iran 2003
- Factors Affecting Hardness in Forged Automobile Gears, Seminar of Material and Metallurgical Engineering, Isfahan, Iran 2001

On-the-Job Training in Automotive Sector and OEMs

MEGA MOTOR Co. Tehran, Iran	1999 -2001
Worked at OEMs of NISSAN, KIA, CITROEN and PEUGEOT as below:	
- 3 months at Part Sazan Forging Co. including principles of die designing, friction parameters between part and die, optimum forging temperature, as well as finding probable defects of parts after forging with MT and PT.	
- 3 months at the Metallurgical Lab., performed the metallurgical tests and examinations such as tension test, Charpy impact test, metallography, and spectrometry and hardness test.	
- 3 months at the Accurate Metrology Lab performed the precise dimensional tests such as CMM, Roughness test, Shadow Graph, and dimensional gauge calibration.	
- 3 months at Saipa Malleable Co. in the field of the casting of steel and cast iron parts, became familiar with Electrical Furnaces, fully automatic casting lines, sand preparation parameters and cycle for automatic preparation of sand dies, low and high pressure die casting, casting of ductile iron and production of malleable iron.	
- 3 months at Mashhad Powder Metallurgy Co. in the field of Powder Metallurgy, included the principles of powder metallurgy such as die designing, sintering parameters, and finalizing or post forging the part considering the final amount of porosities within the part.	