

# MEHDI BAGHERI

EIT Engineer

4968 Yonge Street, Toronto, ON M2N 7G9 • 647-643-6922 • bagheri3347@outlook.com

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## SUMMARY OF QUALIFICATIONS

- Focused professional with analytical skills and experience in construction, energy and manufacturing
- Master's degree in Mechanical Engineering, with P.eng license under assessment by PEO
- Quick learner and result driven engineer, work effectively in self-managed and team-based projects

*Core competencies include:*

- |                            |                            |                             |
|----------------------------|----------------------------|-----------------------------|
| • Technical Report Writing | • AutoCAD                  | • Health & Safety Awareness |
| • Project Planning         | • Root Cause Analysis      | • SPC, Data Analysis        |
| • Blueprint Reading        | • Word, Excel, Power Point | • Procurement               |

## WORK EXPERIENCE

### Quality Control Technician/ Procurement Assistant

May 2017 – June 2019

TAGG Industries & Toro Aluminum, Mississauga-ON

*Private company in high-rise architectural and window manufacturing industry.*

- Planned and conducted tests and precision measuring techniques on various CNC parts, assemblies, heat-treated glasses, extruded aluminum and Dow Corning silicon to ensure finished product quality
- Conducted periodic adhesion, snap and butterfly tests on 2-part silicone mixtures to ensure proper curing and conformity with ASTM recommendations
- Conducted deglazing and measured bite size to ensure proper bonding based on codes
- Measured surface stress on heat treated glasses periodically and in accordance with ASTM and prepared reports (GASP Surface Polarimeter)
- Created NCRs for incoming materials and finished products according to blueprints and codes
- Prepared technical reports for managers on outcomes of QC and test activities
- Analyzed data and collaborated closely with engineering, purchasing and manufacturing teams for developing processes that reduce costs and time, enhance client satisfaction and overall effectiveness
- Assisted in procurement activities by following up on orders, updating status of shipping and receiving, finalizing Pos, data entry and control using Sage software

### HVAC Sales Engineer

2014 – 2016

LG Goldiran, Tehran-Iran

*Privately held company representing LG products in the region and with over 20 years of service.*

- Arranged appointments with clients and conducted regular site surveys to ensure conformity with codes and manufacturer's requirements
- Performed HVAC sizing and load calculation using both software techniques and hand calculation
- Prepared 2D drawings using AutoCAD
- Provided clients with technical offers and cost estimations on suitable HVAC units
- Conducted post sale follow-ups with clients to ensure customer satisfaction

**Mechanical Engineer** 2013 – 2014  
Avrand Pishro, Tehran-Iran

*Privately held and Tier-1 manufacturer of automotive fuel supply system components for local OEMs.*

- Initiated the use of new technologies and suppliers of moulds, fixtures and tools used in manufacturing of vehicle fuel systems and sealing
- Reviewed technical proposals and evaluated products and vendors based on the company's criteria
- Participated in preparing documents and data in response to RFQs and RFIs
- Handled quality control of tools and final products prior to delivering to Manufacturing Department

**Heat Exchange Engineer** 2011 – 2012  
Calsonic Kansei, Swansea-United Kingdom

*A subsidiary of Renault-Nissan Group and producer of automotive heat exchangers and HVAC components.*

- Assisted in tube sizing and fin selection for various heat exchangers
- Evaluated and selected test specifications in accordance with client's codes and standards, i.e. vibration, pressure drop and burst
- Carried out product teardown, performance measuring and root cause analysis on deficient parts
- Gathered and analyzed various data and delivered the results to management through systematic reports and presentations
- Liaised with workshop, R&D and test departments in response to various projects and RFQs

**Junior Piping Engineer** 2006– 2008  
I.G.C., Tehran-Iran

*Privately held EPC company, specialized in providing engineering services to oil and gas industry*

- Assisted in generating and issuing engineering documentations such as piping material, pipe, fitting and valve specifications/data sheets and MTOs
- Reviewed vendors' documents and ensured their compliance with standards, regulations and P&IDs
- Conducted regular site surveys and prepared survey reports for Management
- Calculated pipe thicknesses based on ASME B31.3 & B31.8 and selected suitable equipment such as valves, fittings and pipes for gas compressor stations
- Coordinated with outside parties such as clients, suppliers and subcontractors to ensure successful completion of project on schedule and within budget.

## EDUCATION

**Master of Applied Science degree in Mechanical Engineering (M.A.Sc.)** 2010  
Brunel University- England  
PEO Verified.

**Bachelor of Applied Science degree in Mechanical Engineering (B.A.Sc.)** 2005  
Tehran Islamic Azad University, Tehran-Iran  
PEO Verified.

**Quality Assurance Training** 2018  
Seneca College