

Reza Hashemi

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www.linkedin.com/in/reza-hashemi-csm

EDUCATION

- Colorado School of Mines, Golden, CO** May 2020
Master of Science in Mechanical Engineering
Emphasis: Biomechanical Engineering
- Shiraz University, Shiraz, Iran** Nov. 2010
Bachelor of Science in Mechanical Engineering
Major: Hydraulic and Thermodynamic Design
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WORK EXPERIENCE

- Stone Crafters INC., Denver, CO** Sep. 2014 – May 2018
Mechanical Engineer (Engineering Manager)
- Recommended design modifications to eliminate machine and system malfunctions in a variety of projects.
 - Promoted and implemented process improvements company-wide, resulting in an efficient “preventative maintenance” process.
 - Created CAD models, drawings and AlphaCAM (Stone Version) programs for CNC machines.
 - Operated CNC Northwood Stone Router and Waterjet.
 - Ensured products met requirements for Design for Manufacturing.
- KASEL Industry, Denver, CO** May 2014 – Sep. 2015
Mechanical Engineer (Assembly line and QC Manager)
- Installed products in customer’s factory and trained operators in U.S.
 - Worked with engineering team and CNC operators to improve part's design, manufacturing and process.
 - Tested all details of machine parts daily, checking for continuity, dimensions and conducted test runs to ensure products met design intent.
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PROJECTS

- A Novel Foot Drop AFO Design** Jan 2019 – May 2019
- A new perspective was tested and analysed regarding AFOs. This design tried to assist foot drop by attaching AFO to the superior part of the foot and let direct contact between sole of the foot and floor.
- Ultra-Congruent Total Knee Replacement with Posterior Stabilizer** Aug. 2018 – Dec. 2018
- Designed an ultra-congruent TKR for an assigned patient, analysed the results of simulation to modify the design.
- CFD Simulation of Air Flow Around NREL Phase VI Wind Turbine** Jan. 2018 – Apr. 2018
- Modeled a 2-Blade wind turbine system that utilized the S809 blade shape. Compared the results with NREL wind tunnel test back in 2014 that used this blade shape.
- MatLab Simulation of A Reactive Pollutant Discharge into A 2D Flow Field** Aug. 2017 – Dec. 2017
- Calculated pollution distribution of a reactive discharge in a time period using MatLab and advanced engineering analysis (FEA).
- B.S. Thesis - Case Study on Zero Energy Buildings** Jan. 2010 – Nov. 2010
- After a significant investigations of different methods in smart buildings, I simulated a few of these methods on mechanical engineering building of Shiraz university and studied the results.
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SKILLS

Computer: MatLab, ANSYS (Fluent), SolidWorks, ABAQUS, AutoCAD, AlphaCAM, EPANET, Gambit, Microsoft Office (Word, Power Point, Excel).

Engineering: Analysis of fluid flow systems and basic computational fluid dynamics, Engineering design, Machine shop experience, Thermodynamics, Heat transfer methods.

PROFESIONAL CERTIFICATIONS AND MEMBERSHIP

- Engineering Practice License (Inspection & Design)** Jun. 2014
(Equivalent to PE certificate in the U.S.A.)
Ministry of Road & Urban Development, Iran
- Industrial Designing Using AutoCAD** Nov. 2013
Ministry of Science, Research & Technology, Shiraz, Iran

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Analyzing & Designing Scientific & Research Issues Using MatLab Software
Ministry of Science, Research & Technology, Shiraz, Iran

Jan. 2013