SEAN NOROUZI, EIT   US-CITIZEN

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MEP ENGINEER

A versatile, detail-oriented Mechanical Engineer who is looking for HVAC and Plumbing designer position.

CORE SKILLS AND COMPETENCIES

- ✓ HVAC Design
- ✓ Research and Development
- ✓ Plumbing Design
- ✓ Project Management
- ✓ Title 24 & ResCheck Handling
- ✓ Interpersonal Skills

EDUCATION AND AFFILIATIONS

Boot Camp, Data Analytics | University of California, Irvine (UCI)   **2019**
Master, Mechanical Engineering | Brunel University London   **2014**
Member (Student) | The American Society of Heating, Refrigerating and Air-Conditioning Engineers (**ASHRAE**)
Member | Institute of Mechanical Engineers (**IMechE**)
Member | Engineers without Borders (**EWB**)

PROFESSIONAL EXPERIENCE

Mechanical (HVAC) Engineer | PE-Mechanical, LLC   **Jan 2020 – Present**

- Did Plumbing design of many projects.
- Did HVAC design of many projects.
- Performed 2D / 3D modelling the projects using AutoCAD 2023 and Revit 2021.
- Created Title 24 to meet 2019 Energy Code for California Residential and Commercial projects.
- Created ResCheck for Residential and Commercial projects outside California State.
- Connected the relevant personnel for managing the residential and commercial projects.
- Got many relevant certificates.

Mechanical Engineer | 1001 Home Services   **Oct 2017 – Jan 2020**

- Estimated labor and material cost for various projects.
- Assisted the project manager for mechanical and plumbing section of the projects.
- Ordered material and coordinated deliveries.

PUBLICATIONS

- An Experimental and numerical study of the structural behaviour of a flexible riser model   **Sep 2017**
- Experimental and numerical study of the bending behaviour of a flexible riser model   **May 2015**

SOFTWARE KNOWLEDGE

- ✓ **HVAC:** Revit MEP (familiar with versions 2021 & 2019), Title 24, ResCheck
- ✓ **CAD:** SOLIDWORKS (versions 2009 – 2019) AutoCAD (version 2002-2023) OpenSCAD
- ✓ **FEA:** ABAQUS, ZENCRACK, ANSYS (APDL, Workbench) 13, 12.1, 12, 10
- ✓ **3D Printing:** Cura, CatalystEX, OmNomNom
- ✓ **CODING:** Python (Pandas, Matplotlib, API, Tweepy, SQL Alchemy, Flask), Machine-Learning (Scikit-Learn, Tenserflow), MATLAB (Simulink, Scripting), MySQL, HTML, CSS, JavaScript (D3, Plotly, Leaflet), NoSQL (MongoDB), Tableau, VBA
- ✓ **Lab**: Instron WaveMatrix, SCORPIO
- ✓ **MS Office:** Word, Excel, PowerPoint, Outlook

MISCELLANEOUS

- Enjoy doing 3D print projects, playing backgammon, jugging, swimming and canoeing.
- References will be provided upon request.