

## Contact

[www.linkedin.com/in/](https://www.linkedin.com/in/)

## Top Skills

Microsoft Office

AutoCAD

Engineering

## Languages

English (Full Professional)

Persian (Native or Bilingual)

German (Limited Working)

# Rennie Hulscher

Lead Utilities Engineer @ Chemengineering International | Project Engineering, HVAC & Energy

Austria

## Summary

An experienced Mechanical & Building Services Design Engineer with a demonstrated history of working on multidisciplinary construction projects in Industrial, Semi-Industrial, and Commercial fields. Interested in sustainability, energy optimization, modeling, and new technologies. Self-motivated, team worker and coordinator, always keen to learn and develop new skills. An autodidact, reliable, punctual, and problem solver.

---

## Experience

### Chemengineering Group

Lead Utilities Engineer

February 2022 - Present (2 years)

Vienna, Austria

SCHOTT Production expansion at the Lukácsháza plant (5000 sq. m), Hungary

- Senior HVAC and Utilities Design SME and Project Coordinator

Lonza Sampling Booth Cabin (60 sq.m), Switzerland

- Senior HVAC and Utilities Designer

### Middle East Water and Environment

Senior Mechanical & HVAC Engineer

October 2019 - January 2022 (2 years 4 months)

Tehran Province, Iran

Seawater Reverse Osmosis Desalination Plant (200~1000 Million Lit/day)

- Detailed Design of the HVAC systems (Electrical, Control & ... Rooms)
- Mechanical & Piping Basic Design Peer Review

### Mellat Cineplex

Senior HVAC Designer

May 2019 - October 2019 (6 months)

Tehran Province, Iran

Mellat Cineplex

- Planned and supervised the HVAC systems for 8 new mini-halls in a Cineplex.
- Examined and evaluated the HVAC components of the building after years of operation.
- Proposed a renovation and expansion plan report.

#### Negin Shahr Ayandeh (NESHA)

MEP (Mechanical & Plumbing) Senior Engineer

February 2017 - April 2019 (2 years 3 months)

Tehran Province, Iran

##### Iran Mall West Expansion Project

- Coordinated the MEP Peer Review team and other aspects of projects (architects, consultants, and managers)
- Collaborated with international architects and consultants from NORR Group UAE, WSP Global UK, PAN Partners UK.
- Collaborated in a BIM (Building Information Modeling) team and designed the building services in Revit's platform alongside other disciplines.

#### Middle East Water and Environment

10 years 6 months

Piping and Building Services Engineer

September 2006 - February 2017 (10 years 6 months)

Tehran, Iran

- Collaboration with architects, engineers, and clients in multi-disciplinary projects.
- Engineering documents peer review
- Building Services design and supervision in residential, commercial, and industrial buildings under ASHRAE standards and other applicable building codes
- Heating and cooling load calculations by HAP (Hourly Analysis Program) Software and Revit MEP
- HVAC system selection and layout design
- Ductwork and piping design for HVAC and other utilities
- HVAC and plumbing plans and sections generation in AutoCAD
- HVAC and plumbing 3D Model generation in Revit MEP
- Firefighting facilities design according to NFPA standards
- Pipeline and water network design and modeling
- Drawing, specification, cost estimation, bill of materials, tender documents, and tasks order preparation

- Skilled at working with Auto CAD, Revit MEP, Plant 3D, HAP (Hourly Analysis Program) for HVAC, Autodesk CFD, PVSyst (Solar Farm Design), and Office
- Qualified at working with Delta Q, EPANet, FlowMaster

#### Mechanical Building Services Designer

April 2011 - January 2017 (5 years 10 months)

Tehran, Iran

##### Copper Tube Production Plant

- Aligned the utility and building services teams.
- Collaborated with the international manufacturers to meet their utility needs.
- Designed required utilities essential in the production line, including water cooling systems for different types of machinery in various states of flow, temperature, and pressure.
- Planned the HVAC and plumbing of the plant.
- Supervised the building services installation and commissioning.

#### Piping & HVAC Engineer

2012 - 2014 (2 years)

Tehran, Iran

- Detailed Design of the HVAC systems (Electrical, Control & ... Rooms) and Piping Peer Review

#### Junior MEP Designer & Supervisor

December 2006 - June 2009 (2 years 7 months)

Tehran, Iran

##### Mahan Air Heavy Maintenance Hangar

- Designed utility requirements and HVAC for the Maintenance Hangar and Annex buildings. For example, clean rooms for electrical device maintenance, painting workshop, seat and carpet workshop, battery room, cold room

#### Tanvir Bana

##### Junior MEP Designer

March 2009 - February 2010 (1 year)

Tehran, Iran

##### Police Force Entertainment Complex

- Performed the heating and cooling load modeling.
- Designed the mechanical building services.

---

## Education

K. N. Toosi University of Technology

Master's Degree, Mechanical Engineering, Energy Conversion · (2011 - 2014)

K. N. Toosi University of Technology

Bachelor's Degree, Mechanical Engineering, Heat and Fluids · (2002 - 2006)

NODET Students (Sampad)

High School · (1998 - 2001)