

# Ehsan Shahinfar

## Mechanical Engineer

I have extensive experience as a Mechanical Engineer, specializing in design, construction, and installation. My skills include proficiency in Autodesk Inventor, Machine design, equipment installation, and fabrication. I hold a Master's degree in Mechanical Engineering from Yazd University.

## Experience

### Safa Foulad Co. | Mechanical Engineer, Head of Technical Office

Apr 2017 - Present

#### KGPC Paper Production Plant (EPC Project)

- Equipment design and drawing preparation
- This plant has more than 45 belt conveyors and 8 chain conveyors and I contributed to basic and detailed design. We improved the performance and operation problems by 20%.
- PFD design of the plant by reducing the amount of water and power consumption.
- Was involved in general layout design with regard to expense reduction and operation simplification.
- Preparation of several project documents such as datasheets, MRQ, MDR,...

#### SABA Steel Company, Expansion (EPC Project)

- In association with Danieli Co.
- Erection and commissioning of bag filter and wet scrubber dedusting units.
- Being involved in Renovation projects for Steelmaking, Thin slab caster, and hot strip mill production line to increase the production capacity by 15%.
- Steel Making Plant: EAF Renovation, Teeming and charging cranes installation, steel structure installation, and optimization
- Thin Slab Caster: Mold and segment preparation for production, a new Oscillator, and tundish pre-heaters installation, renovation, and readjustment of the banana frame,...
- Hot strip Mill: Installation and commissioning of the descaling pump, adding the seventh mill stand to the production line. we have expanded the range of products to include new offerings.

### Charkh Gardoon Co. | Co-Founder / Mechanical Engineer

Jan 2014 - Apr 2017

#### Soud Gostar Power Plants Project

- Design and construction of a special crane for the installation of motors and generators (40 tons each motor) of the power plant
- Reduced the equipment installation cost by more than 50%
- Installation of about 1000 tons of equipment and devices
- assembly of hydraulic parts and cylinders

#### Electro-Hydraulic Grab for Steel Production Plant Clarifier

- Designed and fabricated the mechanism and hydraulic circuit
- checking and quality control of machined parts
- Design, construction, and assembly of Cable Reel

### Safa Foulad Co. | Mechanical Engineer

Jan 2010 - Jan 2014

#### Two 30000 Nm3 Oxygen plants (EPC Project)

- In association with Hanguang, Atlas Copco, Ingersoll-Rand
- Installation and commissioning of two 30000 Nm3 Oxygen plants Project
- Modeling of Oxygen Plant Cold box by PDMS
- Head of the technical office for erection and commissioning of Cold box
- Conducting the commissioning team of Atlas Copco air compressors

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## Skills

### 3D Modelling and Machine Design

- **Autodesk Inventor**
  - Have been an Instructor for 2 years at Mehregan Institute
  - extensive experience with the software, having used it for multiple projects
  - Stress analysis
  - iLogic, iPart, iAssembly
- **SolidWorks, AutoCAD**
- **Automation Studio**
  - Hydraulic circuits design and analysis
- **PDMS**
- **Belt Analyst, Helix DeltaT**
  - Belt Conveyor Geometry design
  - Power consumption calculation
  - Belt Conveyor basic design
- **GD&T, sheet metal design**

### Programming

- **Python**
  - Pandas, NumPy, Matplotlib
  - scikit-learn
- **MATLAB**

### Installation and Commissioning

- Rotary and fixed equipment installation and alignment
- Dedusting system and ducting
- Steel Structure
- NDT methods such as RT, VT, PT, etc....
- Experienced in working with industry standards such as ASME, DIN, ISO, CEMA, and FEM.

## Languages

**English:** Fluent (IEITS 7)

**French:** Intermediate (Delf B1)

**German:** Beginner

## EDUCATION

### Yazd University

MSc in Mechanical Engineering  
Sep 2006 - April 2009

### Chamran University if Ahwaz

BSc in Mechanical Engineering  
Sep 2001 - April 2006