



Mohamad Harb

Mechanical Engineer

MS-qualified Mechanical Engineer with expertise in mechanical design, 3D modeling and project execution. Proficient in SolidWorks, TopSolid, ANSYS, and AutoCAD. Experienced as a Project Engineer in the oil and gas industry, managing design and execution phases of complex mechanical systems. Strong collaborator with a track record of delivering innovative, efficient solutions.

CONTACTS

- +961 70672287
- harbmhmd7@gmail.com
- 3 years 7 months
- Lebanese
- Arabic, English, French
- Beirut, Lebanon

KEY SKILLS

- Autocad
- Solidworks
- Top solid
- Mold Flow
- Mold Design
- Ansys Workbench
- Oil and gas
- Manufacturing
- Quality Control
- Computer-Aided Design CAD
- Mechanical Design
- Revit MEP
- Power Mill
- Mechanical Drawings
- MATLAB
- NDT Testing
- Injection Molding
- Python
- CMM

ONLINE PROFILES

- [LinkedIn](#)

CERTIFICATIONS

IELTS

British Council

Does not expire

PROFESSIONAL EXPERIENCE

SEMT Holding

Mechanical Engineer

Mar 2025 - May 2026 | Beirut, Lebanon

- Follow up on projects from design to implementation and control in: Total Energies, Wardieh and Uniterminals
- Design all aspects of oil and gas terminals using Solidworks routing with its components
- Design Steel structures, hangars, canopies
- Supervise and monitor onsite assembly and installation activities (floating roof, manifold, pipeline, loading bay)
- Perform CFD and Structural simulations using Ansys and Pipeflow
- Create detailed engineering drawings and specifications using Solidworks and Autocad
- Familiarity with valves, pipes, fittings, or flanges in Oil & Gas/Petrochemical fields
- Conduct site inspections and ensure compliance with industry and safety regulations
- Familiar with NDT techniques (Floor map, Scorpion, MPI, Face array and UT) into the Tank material, Nozzles and Pipes to identify structural imperfections such as cracks, corrosion, wall thickness changes, or other anomalies.

Copar

Mechanical Design Engineer

Sep 2023 - Feb 2025 | Choueifat, Lebanon

- Designed 3D solid models of plastic injection and blow molds using Top Solid and Catia, ensuring precision and adherence to design specifications
- Created detailed technical drawings and specifications for mechanical parts and assemblies
- Participated in design reviews, providing actionable insights to enhance product design and functionality
- Generated comprehensive Bill of Materials (BOM) aligned with customer specifications
- Ensured all design documentation met quality standards, including tolerances and assembly instructions
- Utilized Mold Flow to simulate and optimize plastic flow dynamics
- Implemented quality control measures to uphold manufacturing standards
- Identified process improvement opportunities, leading initiatives to enhance design efficiency
- Created programming for a 3D printing machine

MKS Packaging

Mechanical Design Engineer

Aug 2022 - Oct 2022 | Beirut, Lebanon

- Developed mechanical designs from concept to completion using

Mechanical Shop Drawings
Arabic Academy

Does not expire

Revit MEP
Arabic Academy

Does not expire

Intermediate Python
Data Camp

Does not expire

PLC Programming
Al Baraka Association

Does not expire

- SolidWorks, integrating customer feedback
- Programmed machining operations using PowerMill for precision manufacturing
- Managed installation projects, ensuring timely completion and adherence to specifications

Younis for Engineering and Trading
Mechanical Engineer

Jan 2020 - Mar 2020 | Beirut, Lebanon

- Perform shop drawings for HVAC, Plumbing and Firefighting systems
- Supervise mechanical system installations
- Coordinate and report to the manager

Ghaddar Machinery CO.
Intern

Jul 2018 - Sep 2018 | Ghazieh, Lebanon

- Identifying the different fabrication processes.
- Designing a trailer using Solid Works software.
- Proceeding a numerical simulation (StressDisplacement & factor of safety) for the designed trailer.

EDUCATION

Master of Science - Mechanical Engineering
Lebanese International University, Lebanon

2019

Bachelor of Science - Mechanical Engineering
Lebanese International University, Lebanon

2017