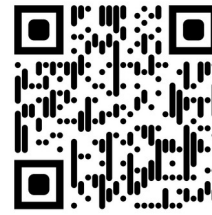


HAMED ABDOLLAHI

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LOC. Eindhoven, Netherlands

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PROFILE:

Mechanical Engineer with experience across the energy and high-tech industries. Specializes in design, analysis, and technical calculations. Supports development from initial concept to validation.

Competencies: # Product Development # Fluid & Thermal Systems # Mechanical Design & Analysis

Skills ➤ CFD, FEM, CAE • CAD • GD&T • DFMA • PLM • Documentation | Communication • Agile/Scrum • Teamwork

➔ ASME Y14.5 • BPVC ASME VIII

Tools ➤ ANSYS • Siemens NX • SolidWorks • MATLAB • Teamcenter • MS Suite

</> Python • C++ • Automation & Agentic development

Website: hamedeo.github.io

LinkedIn: [In/hamedeo](https://in.linkedin.com/in/hamedeo)

PROFESSIONAL BACKGROUND

Mechanical Engineer Consultant

Morpheidos Tech

Mar 2025 - Present

The Randstad, Netherlands

Providing engineering analysis and simulation support for mechanical system design and optimization across high-tech and energy industries.

- Supported early design decisions by developing simulation models for high vacuum systems.
 - 60% reduction in execution time by integrating data driven model (PI ML).
- Cutting 7% in thermal energy loss in a district heating network by digital twin development.
- Feasibility analysis of digital twin usage in adopting barge over road transportation in Utrecht area.
- Mechanical analysis of seabed cable movement for marine operation.

Technical Project Manager

Digital Society School @ AUAS

Jan - July 2026

Amsterdam, Netherlands

Led a 5+ multidisciplinary team from engineering and marketing background, launching an interactive 3D VR experience under a strict 6-month Agile lifecycle.

- Secured stakeholder consensus on a complex problem statement by establishing a unified scope.
 - Built and tested prototypes using CNC, 3D printer, and modules to validate stakeholder needs.
 - Concluded research across available resources to shape project requirements and narrative.
- Slashed resource expenditures by 40% by directing sprint planning for on schedule project delivery.

Mechanical Engineer

ASML

Nov 2023 - Sep 2024

Veldhoven, Netherlands

Engineered PLM databases and CAD library standardization for complex vendor components & assemblies in a team of 25+.

- Drafted technical documentation to transition supplier designs toward PFAS-free components.
 - Liaised between internal teams and external vendors during new product introduction.
 - Established the technical compliance baseline for incoming fluid-power hardware.
- Cut workload by ~50% by automating PLM workflow and engineering change management.
- Designed custom mechanical interfaces for core hardware modules to meet functional constraints.
 - Executed tolerance stack-up and generated TPD, TDS, & BOM data using Siemens NX/TC.

Mechanical Design Engineer

AurangZib Gita Co.

Feb 2018 - Aug 2019

Isfahan, IR

Designed a high-pressure oxygen storage vessel for an electric arc furnace steel manufacturing plant.

- Used PV Elite calculations per ASME VIII-1 to secure structural designs for a 40-bar vessel shell.
- Conducted ASME VIII-2 FEM analyses via ANSYS Mechanical to validate a 10K+ cycle fatigue lifespan.
- Ran ANSYS Fluent CFD on inlet manifolds, cutting pressure drops by 12% via reverse-engineering.
- Checked vendor drawings against P&IDs to fix nozzle mismatches and prevent downtime.

Project Manager

ITResearches

2015 - Jun 2018

Tehran, IR/London, UK

Delivered 10+ internal & external projects for national & international clients in a team of 8+ developers and marketing team.

- Drove 150% business growth and improved contract renewals by 50% over 12 months.
- Deployed Interactive AI advertiser Robot (TALEE) across 3 sites, converting pilot tests into contracts.

EDUCATION

Master of Mechanical Engineering Polytechnic University of Turin (PoliTo)

2023

Turin, Italy

Research Intern in Thermo-Fluids Engineering Eindhoven University of Technology (TU/e)

Jan - Dec 2023

Eindhoven, Netherlands

Thesis: Secondary atomization and solidification of metal melt in gas atomization.

- Developed an OpenFOAM CFD model to simulate gas atomization dynamics.
- Suggested a new thermal model for solidifying droplets.
- Verified code feasibility and validated results against lab experimental data.

Guest Student ENSTA Paris, Polytechnic Institute of Paris

Apr - May 2022

Palaiseau, France

Sustainable energy for future transportation systems.

Bachelor of Mechanical Engineering University of Isfahan (UI)

2017

Isfahan, IR

Thesis: Thermal optimization and flow-field design of a liquid cooling plate for high temperature PEM fuel cell stack using ANSYS Fluent.

Mechanical Engineer Intern Mobarakeh Steel Co., Energy and Fluid distribution area.

May - Sep 2017

Isfahan, IR

Mapped site sensor data to thermodynamic charts to isolate ambient losses, documenting fixes to prevent downtime in the gas & steam power plants.

ABOUT ME

- **English** Business Professional
- **Persian** Native
- **Dutch** Improving (A2-B1)