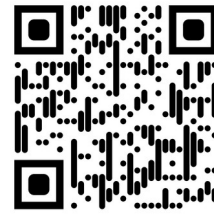


# HAMED ABDOLLAHI

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LOC. Eindhoven, Netherlands

TEL. +31 (0)6 2241 0181



## 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](https://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.

- Secured structural designs for a 40-bar vessel shell, using PV Elite calculations per ASME VIII-1.
- Validated high-cycle fatigue lifespan by conducting ASME VIII-2 FEM analysis via ANSYS Mechanical.
- Cutting pressure drops by 12% via reverse-engineering & using ANSYS Fluent CFD on inlet manifolds.
- Prevent downtime by chacking vendor drawings against P&IDs to fix nozzle mismatches.

### Technical 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)