

Personal Profile

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Gender: Male

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Nationality: Iranian

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About

Experienced Mechanical Engineer specializing in the design and development of mechanical systems, with strong skills in CAD modelling (SolidWorks), theoretical analysis, and product testing. Expertise in DFMEA, GD&T, and prototype fabrication, coupled with a solid understanding of materials and manufacturing processes. A proven track record in developing innovative, reliable, and high-quality mechanical designs that meet engineering and customer specifications.

Professional Experience

Mechanical Engineer

AKTP Project, LBBC Resomation Co., UK

March 2024 – July 2024

- ✓ Conducted theoretical and practical analyses to optimize the design of complex mechanical systems.
- ✓ Utilized SolidWorks to create detailed design concepts and final product parts, ensuring accuracy and manufacturability.
- ✓ Led DFMEA sessions to identify potential risks and implemented effective mitigation strategies.
- ✓ Developed and tested prototypes, validating design performance against technical specifications.
- ✓ Collaborated with cross-disciplinary teams to streamline design testing and prototype fabrication processes.

Mechanical Engineer – Product Development

TurboTec Co., Tehran, Iran

September 2019 – December 2022

- ✓ Designed and analyzed mechanical systems for industrial and consumer applications, focusing on quality and reliability.
- ✓ Applied GD&T principles to create detailed engineering drawings and ensured compliance with international standards.
- ✓ Led problem-solving tasks to address design challenges, improving product performance and manufacturability.
- ✓ Conducted material selection and analysis to optimize product durability and cost efficiency.
- ✓ Produced prototypes and conducted testing to validate designs, ensuring alignment with client specifications.

Maintenance Engineer (Placement)

IDEM Company (Partner of Daimler-Chrysler and IRAN KHODRO)

March 2018 – September 2018

- ✓ Supported the design and maintenance of mechanical systems, with a focus on quality and reliability.
- ✓ Participated in prototype testing and analysis, providing detailed feedback for design improvements.
- ✓ Assisted in problem-solving tasks to resolve engineering challenges during the production phase.

Key Achievements

- ✓ At AKTP Project, LBBC Resomation, developed a prototype testing process for modular liquid cooling systems, reducing validation time by 15% and ensuring timely product launch.
- ✓ Successfully implemented DFMEA on a critical aerospace subsystem project at TurboTec, identifying and mitigating potential failures, which resulted in an 8% increase in product reliability.
- ✓ Optimized a complex CAD model for a heat exchanger assembly at LBBC Resomation, reducing material waste by 10% while maintaining structural integrity and functionality.

Technical Skills

- CAD Expertise: SolidWorks (advanced), AutoCAD
- Theoretical Analysis: Strong understanding of mechanical engineering principles for system design and performance evaluation
- DFMEA & GD&T: Proficient in risk analysis and engineering detailing
- Prototyping & Testing: Experienced in fabricating and validating mechanical prototypes
- Materials & Manufacturing: In-depth knowledge of materials selection and manufacturing processes

Certifications

- ✓ Certified CAD Specialist (Solid Edge, AutoCAD 2D)
- ✓ FMEA and GD&T Training Certification
- ✓ Sustainability in Design Certification
- ✓ Driving License (Getting ready for driving test)

Education History

(Jan/2023-Now) Researcher at University of Huddersfield, UK

(Sep/2018-Sep/2021) MSc. in Aerospace Engineering at Tehran Polytechnique, Tehran, Iran

(Sep/2013-Mar/2018) BS. in Mechanical Engineering at University of Bonab, Bonab, Iran

Hobbies

- Gym
- Reading
- Site seeing
- Violin

References

- Dr. Hamidreza Faham, Research Fellow at University of Huddersfield,
Email: h.faham@hud.ac.uk
- Dr. Behzad Abdi, Lecturer at university of Huddersfield,
Email: B.Abdi@hud.ac.uk