

Ahmad Nibal Kattan

M. Sc. Mechanical Engineer

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Education

University of Jordan.

M. Sc. Mechanical Engineering - GPA: 3.88 (2022)

- Thesis title: Investigation of Nonlinear Three-Element Vibration Absorber Incorporating Viscoelastic Material.
- Covered courses: Advanced Mathematics, Research Methodology, Advanced Numerical Methods, Finite Element Analysis, Advanced Solid Mechanics, Advanced Dynamics, Advanced Mechanical Vibrations, Advanced Measurements.

University of Jordan.

B.Sc. Mechanical engineering - GPA 3.75 (2018)

- Graduation Project: Forced Vibration Analysis of Continuous Beams.

High school certificate, Jordan.

Experience

- **Research and Teaching Assistant at German Jordanian University (2/2020 – Currently)**
Supervise different Mechanical and Industrial Engineering labs such as Materials lab, Measurements lab, Manufacturing lab, Mechanical vibrations lab, and Applied thermal systems lab.
- **Lecturer at the German Energy Academy (2/2023 – 8/2023)**
Provide training for practitioners and engineers on energy efficiency principles in building services, specifically focusing on different HVAC systems and the thermal characteristics of buildings.
- **Lab supervisor at Al-Zaytoonah University (2/2019 – 2/2020)**
Supervise different mechanical engineering labs such as Fluid mechanics lab, Thermodynamics lab, Strength of materials lab, and Computer added design lab.

- **Production Engineer at Packaging Industries Company (1/2019 – 2/2019)**
Follow up with the production lines and manage the production process.
- **Design and Manufacturing Engineer at Petra Aluminum company (9/2018 – 12/2018)**
Design different residential Aluminum products such as curtain walls, windows, and doors. Follow up with the fabrication process.
- **Trainee at Dar Al-handasah (Shair and Partners) company (6/2018 – 9/2018)**
- **Coach in Waleed's Taekwondo School (2013-2016)**

Currently Working Projects (Research)

- Experimental and Numerical Investigation of a Nonlinear Three-element Vibration Absorber Incorporating a Viscoelastic Material (Research paper about to publish).
- Experimental investigation of performance of solar air heaters with selective coating and special-designed absorber plates (9,100.00 JD Fund).
- Experimental analysis of small 3D-printed vertical turbines with different design angles.

Certificates and Training

Educational Certificates and Training

- Visiting Trainee Engineer at the Institute of Lightweight Systems (Adaptronics Department) at the German Aerospace Center DLR (2023)
- Vibration analysis in Condition Monitoring Technique (2023)
- Shaft Alignment training course (2022)
- Digital Fabrication training course (3D-Printing, CNC) (2022)
- Introduction to Python (2021)
- Online and Blended Learning (2021)
- Safety Course for Electrical and Mechanical Laboratories (2020)
- Introduction to Pumps (2018)
- Introduction to Active and Passive Safety System in automobiles (2018)
- Introduction to Manufacturing and Cost accounting for industrial product (2018)
- Heat Treatment on Welding (2018)

Sports Certificates

- 4-DAN black belt in Taekwondo
- Member in Jordanian National Team of Taekwondo (2012-2014)

Softwares

- | | |
|--------------|---------------|
| - SOLIDWORKS | - AUTOCAD |
| - MATLAB | - REVIT (MEP) |
| - CATIA V5 | - ANSYS |

Volunteering Works

- Volunteer at Al-Furqan Charity
- Volunteer at Eye on the future campaign for high school students
- Volunteer at Sheikh Nooh Association Charity

Languages:

- Arabic (Mother tongue)
- English (IELTS Academic 6.5)

References:

- Dr. Ali Alhadidi
Associate professor/ Mechanical Engineering, Mechanical Engineering Department, University of Jordan.
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- Prof. Naser Al-Huniti
Professor/ Mechanical Engineering, Mechanical Engineering Department, University of Jordan.
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- Prof. Rafat Al-Waked
Professor/ Mechanical Engineering, Mechanical and Maintenance Engineering Department, German Jordanian University.
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