Marwa MASMOUDI

I am an Engineer in Mechanics and doctor graduated from the Higher Institute of Mechanics of Paris (SUPMECA) in the field of passive vibration damping. Today, I am actively looking for a new professional challenge. I have a solid technical background in mechanics (mechanical design, material resistance, mechanical manufacturing) and mastery of several mechanical design software (SOLIDWORKS, CATIAV5).

● EDUCATION

EDUCATION | 2012 – 2016 PhD degree in Mechanics - SUPMECA Paris
Topic : Simulation of a granular material for vibration suppression with DEM and its comparison with experience
Mission :
- Experiment protocol definition: Granular media, granular types, Young Modulus, Poisson coefficient, etc
- Several Experimental studies have been finalized to analyze the granular damping behavior in collaboration with the Laboratory of Systems and Materials at the higher institute of mechanics of Paris (SUPMECA)
- Damping analysis and its relation with the loss factor, granular mass &velocity
- Two numerical models have been developed
- An analytical study was achieved to validate experimental and numerical results found
- Publication of an article "Granular Matter" with an Impact Factor 1.775

EDUCATION | 2009 – 2012 Engineering degree in Mechanics - ENIS
National engineering School of Sfax - ENIS, Honourable degree

EDUCATION | 2007 – 2009 First cycle - Preparatory classes
Preparatory school for engineer studies of Sfax − IPEIS
Option : Maths / Hhysics (MP)
Admission to the national contest to entrance to engineering school in June 2009

● PROFESSIONAL EXPERIENCE

IPEIN | Assistant | 2017 – 2018
Mechanical design Course teacher: Study of technical systems, Dimensional specifications, geometric and surface condition, Analysis of mechanisms, Assembly function, Dimensioning of a technical solution, Motion transformation systems by screw-nut, Guiding function in translation/Rotation, Dimensioning a rotation guide

ISTMT | Assistant | 2015 – 2016
CAD teacher (Computer-Aided Drafting) with Solidworks: Introduction to SOLIDWORKS and basic functionality, Creating 3D part using the software SOLIDWORKS, Component assembly, RDM application with SOLIDWORKS

ENIS| Assistant | 2013 – 2015
CAD teacher (Computer-Aided Drafting) with Solidworks: Creating a volume part, Creation of a sheet metal part, Using the repeat function, Creating the handle of a ski Stick, Creation of a scissor lift

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● INTERNSHIP

IET Groupe SOCOMENIN | End of Studies' Project| 2012
Mission: Study, design and sizing of a gas filtration system

IET Groupe SOCOMENIN | engineer Internship| 2011
Mission: Study of a conveyor belt of a belt conveyor

● PUBLICATION

- Experimental and Analytical Analysis of Particle Damping – Nov 25th 2017, Springer

- Experimental and numerical investigations of dissipation mechanisms in particle dampers - july 2016, Granular Matter

- Granular material for vibration suppression – March 19th 2014, Springer

● LANGUAGES

English : Read, written, spoken
French : Read, written, spoken
Arabic : Native Language

● + INFOS

Hobbies
Travel, Music, Reading

● Certification

Certification SolidWorks Essential CSE

● Key COMPETENCES

Competence	Level
CAD Software : SOLIDWORKS, CATIAV5, AUTOCAD	● ● ● ● ●
RDM Software: RDM6	● ● ●
Study and Modeling of mechanical systems	● ● ● ● ●
Programming software: MATLAB, MAPLE,	● ● ● ●
RDM Analytical calculation	● ● ● ●
FAO Software: MASTERCAM	● ● ● ●
Mechanical design	● ● ● ● ●
Mechanics of non-deformable solids	● ● ●

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