Foad Kazemi Majd

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PROFILE

I am mechanical engineer with experience in quality control inspection, According to my interest in damage prediction, I am working on the "DESDEMONA" (DEtection of Steel Defects by Enhanced MONitoring and Automated) project for self-inspection and maintenance procedure which financed by EU Research Fund.

Proficient in machine learning approach by Python and Finite Element Method (FEM) with software ABAQUS, MATLAB.

EDUCATION

Polytechnic University of Turin (POLITO)   **Turin, Italy**
Master of Science in Mechanical Engineering   *July 2018*

EXPERIENCE

Quality Control Engineer   **Bergamo, Italy**
TC2 Services Consultancy SRL   *January 2019 - Up to now*
- My main task is to be the link between clients and vendor during the production phase.
- Preparing the inspection report for the clients.

Research and development Engineer   **Rivoli, Italy**
Axist Srl   *October 2018 - December 2018*
- Design and modification of customized automotive equipment with SolidWorks for assembly and testing.
- Creation 3D model and technical drawing for robotic arm of end effector.
- Defining metrology to maximize the productivity and quality based on the single and cloud point for industrial manufacturing process.

ACADEMIC PROJECTS

The behaviour of advanced composite structure in the low-velocity impact test   *July 2018*
- The aim was to investigate the comparison between numerical and experimental studies of impact test from the composite panel with ABAQUS/explicit to investigate the damage for improving the impact resistance.

Dynamic Behavior of a cantilever beam equipped with a dynamic damper   *April 2017*
- Study the dynamic behavior of an aluminum alloy (AISI 2024) cantilever beam using a numerical (FE) and experimental approach. Validate the benefits of a dynamic damper mounted at the free end of the beam. Identify the stiffness of the structure and the relative modal damping.

Dynamic behavior of an Alfa Romeo model automobile suspension   *Feb 2016*
- This project was devoted to study the dynamic behavior of a single suspension using the lumped parameter analysis modeled in Matlab

JOB Certificate		
Iran Technical and Vocational Organisation (TVTO)	o Designing and modelling by AutoCAD o Simulation with ABAQUS o Simulation with ANSYS o Welding design o Pneumatic repair o ICDL computer operation	
Non-Destructive Testing (NDT) Welding Certificates	o Ultrasonic Testing Method (UT) o Radiographic Testing Interpretation o Visual Testing (VT) o Magnetic Particle Examination (MT) o Liquid Penetrate Examination (PT)	
Certified Welding Inspection (AWS)	o Surface preparation and coating Inspection o Certificated Welding Inspection (CWI)	
Tehran Institute of Technology	o Principles and theories of Piping o Piping Stress Analyzing with Caesar o 3D process modeling with PDMS	

SKILLS

o Python, ABAQUS, ANSYS, MATLAB, LATEX

Conferences

o Italian Association of Theoretical and Applied Mechanics Conference (AIMETA), September 2019
o Forze Modelli Simulazioni predizione e osservazione (PRIN 2015), May 2019
o First international Nonlinear Dynamics conference (NODYCON 2019)

Language

o English (Level: C2), Italian (Level: A2), German (Level: A1)

AWARDS AND ACHIEVEMENTS

o Winner of full scholarship EDISU Piemonte 2015-2016
o Winner of full scholarship EDISU Piemonte 2014-2015
o Selected in the State-wise Konkoor Entrance test in 2013 for Master programs, accepted to study M.Sc. in Mechanical Engineering at Sharif University of Technology (Kish branch) (Among 920,000 participants of the test)
o Selected for National Organization for Development of Exceptional Talent (NODET) in 2003 through an exam emong150.000 participants.