

MOHAMMADJAVAD RAHIMI DOLATABAD

MSc in Electromechanical Engineering, Mechatronics - Construction

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EU Driver Licence

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MJSk8RAHIMI

WORKING EXPERIENCE

NeoScan Company

MECHATRONIC ENGINEER

Mechelen, Belgium

09/2023 - Present

- Led CT scanner design and development; focused on mechatronics and mechanical integration.

Rahavard Electronics Company

PCB AND MECHANICAL DESIGNER

Tehran, Iran

01/2016 - 08/2018

- Designed electrical boards and mechanical parts, ensuring product quality and standards.

Self-Employed - Segam Electronic Company

PCB AND MECHANICAL DESIGNER

Tehran, Iran

01/2011 - 01/2015

- Developed custom PCBs for various industries, managing projects for client satisfaction.

EDUCATION

School of Science and Engineering

M.SC IN MECHANICS-CONSTRUCTION ENGINEERING

Brussels, Belgium

09/2021 - 09/2024

- **Thesis:** Optimization-based Control of an Over-actuated Kinesthetic Haptic Device

School of Science and Engineering

M.SC MECHATRONIC ENGINEERING - SHARIF UNIVERSITY OF TECHNOLOGY

Iran, Tehran

09/2018 - 09/2020

- **Thesis:** Analytical and Experimental Analysis of Nonlinear Vibration in a Rotary Inverted Pendulum

School of Science and Engineering

B.S., ELECTRICAL ENGINEERING-ELECTRONICS DEPARTMENT

Iran, Tehran

09/2006 - 09/2010

- **Thesis:** Prediction of sudden cardiac death using linear and non-linear features on ECG and HRV signals

PUBLICATION

Springer

NONLINEAR DYNAMICS

01/2022

- **Dolatabad, Mohammadjavad Rahimi, Abdolreza Pasharavesh, and Amir Ali Akbar Khayyat.** "Analytical and experimental analyses of nonlinear vibrations in a rotary inverted pendulum." *Nonlinear Dynamics* (2022): 1-16." DOI: 10.1007/s11071-021-06969-0
- **Ebrahimzadeh, Elias, Farahnaz Fayaz, Fereshteh Ahmadi, and Dolatabad, Mohammadjavad Rahimi.** "Linear and nonlinear analyses for detection of sudden cardiac death (SCD) using ECG and HRV signals." *Trends Res* 1, no. 1 (2018): 1-8.

TEACHING EXPERIENCE

Sharif University of Technology

TEACHING ASSISTANCE

Iran, Tehran

09/2019 - 09/2021

- **Courses:** Vibration, Dynamics, Physics II, Calculus I & II

HONORS AND AWARDED

CNN NEWS

ENTREPRENEUR

Iran, Tehran

09/2014

- First Iranian entrepreneur who has taken to making skateboards.

ABOUT ME

Highly skilled and motivated electromechanical engineer with extensive hands-on experience in diverse engineering projects and a proven track record of delivering high-quality solutions. Proficient in designing and implementing innovative systems that optimize efficiency and performance. Demonstrates a strong background in both mechanical and electrical design, consistently contributing to successful project outcomes.

SKILLS

CAD

SolidWorks, Inventor, Altium PCB Design, Knowledgeable in ISO and ASME standards, Proficient in Geometric Dimensioning and Tolerancing (GD&T)

Mechanical

Ansys FEA, AutoDesk, Adams Multibody Mechanics

Electrical & others

Proteus, Siemens PLC, Matlab & Simulink, Microsoft Office, Photoshop, \LaTeX

LANGUAGES

English • Fluent

Persian • Native

LEADERSHIP & COORDINATION

- Organized \LaTeX and MATLAB workshops for undergraduate students
- Represent more than 1000 engineering undergraduates in faculty meetings

HOBBIES

Running, skateboarding