



# Kambiz Moradi

Iran, Kermanshah

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## Professional Summary:

More than 4 years of experience as a Research Assistant in the Research and Development (R&D) field working with most prestigious universities and research projects, having 4 published papers at well-known international scientific journals as well as 3 years of experience as a Teacher/Teacher Assistant at a variety of advanced programming and engineering courses including Python, MariaDB, Solidworks, Matlab, Linux and System Controls.

## Skill Summary

Excellent skills and experience, teaching and working with a variety of tools in Engineering fields:

- **Operating System:** Scientific linux(7.9), Debian(10/9), Arch, Microsoft Windows (10/8.1/7/XP)
- **Programming/Database/Virtualization:** Python, Shell Script, Matlab, Simulink, MariaDB, MS Access, Proxmox, VirtualBox
- **CAD/CAE:** Solidworks, Mechanical APDL(ANSYS), AutoCad
- **Electrical:** OrCAD PSpice, FluidSim(FESTO)
- **Personal:** Problem-solving, Fast Learning, Creativity, Teamwork and Interpersonal Skills, Adaptability and Tenacity, Analytical Abilities

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## Professional Experience

- Research Assistant, Finite Element Method in Bio-Sensors and Carbon Structures(Remote), [Hamedan University of Technology](http://www.hamedan.ac.ir).  
Apr 2020 – Present
- Educator ,Variety of Engineering Courses and Softwares, Reels Academy  
Oct 2016 – Mar 2020
- Educator at Online course, Python, [Iran University of Science and Technology](http://www.iut.ac.ir).  
Oct 2020 – Dec 2020 (Part Time)
- Research Assistant, Virtual Data Center Project(Remote), [DATACOM](http://www.datacom.com)  
Jan 2020 – Sep 2020 (Part Time)

- Educator at Online courses, Matlab and Simulink.  
Jun 2019–Oct 2019 (Part Time)
  - Teacher Assistant, Linear Control Systems, [Hamedan University of Technology](#).  
Sep 2015–Jun 2016 (Part Time)
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## Education and Studies

- Bachelor of Science in Robotic Engineering, [Hamedan University of Technology](#),  
Dissertation: *Carbon Nanotube Natural Frequencies*, Graduated with GPA-A, 2017
  - Maintain and Repair Industrial Electrical Machines and Drives, [Kermanshah Vocational and Technical Department](#), Graduated with GPA-A, 2017
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## Publications

1. Payandehpeyman, J., Moradi, K., Goodarzihosseinabadi, H. & Shayestehzeraati, A. Vibrational behavior of defective and repaired carbon nanotubes under thermal loading: A stochastic molecular mechanics study. *Mechanics of Materials*. Link: [Mechanics of Materials](#) (2021).
  2. Payandehpeyman, J., Parvini, N., Moradi, K. & Hashemian, N. Detection of SARS-CoV-2 Using Antibody–Antigen Interactions with Graphene-Based Nanomechanical Resonator Sensors. *ACS Applied Nano Materials*. Link: [ACS Publications](#) (2021).
  3. Payandehpeyman, J. & Moradi, K. Effect of temperature on vibrations and buckling behavior of carbon nanotube-based mass sensors using a new temperature-dependent structural model. *Physica E: Low-dimensional Systems and Nanostructures*. Link: [ELSEVIER Physica E](#) and [Harvard edu](#), 258–269 (2019).
  4. Payandehpeyman, J., Naghipour, S. & Moradi, K. Nonlinear Analysis of Buckling and Postbuckling of Defected Single-Walled Carbon Nanotube under Bending Loading. *7th International Conference on Nanostructures (ICNS7)*. Link: [ICNS7 CAR full pdf](#), 650–652 (2018).
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