

Sara Bakhtiari

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EDUCATION

Iran University of Science and Technology

Tehran, Iran

Bachelor of Mechanical Engineering

2016-2021

- GPA: 15.76/20 (3.3/4)
- Notable Courses: Statics, Introduction to Finite Element Method, Solid Mechanics, Dynamics

EXPERIENCE

Teacher Assistant

September 2021 – December 2021

Iran University of Science and Technology

Tehran, Iran

- Statics course

RESEARCH INTERESTS

Computational Biomechanics

Medical ultrasound & MRI

Hard & Soft Tissue Biomechanics

Cardiovascular Anatomy & Physiology

ACADEMIC RESEARCH

Bachelor Degree Thesis

May 2019 – October 2021

- Simulation of the propagation of Ultrasonic shear waves in the tumor liver environment to diagnose cancer
- A Thesis Submitted in Partial Fulfillment of the Requirement for the Degree of Bachelor of Science in Mechanical Engineering

PROJECTS

Construction of a Solenoid Actuator and Control Its Speed

June 2020

- Mechanical design and optimal circuit inspection
- Experience with micro-controller design using the Arduino programming environment
- Machine construction

Design and Construction of a Wood Lathe Machine

July 2019

- Mechanical calculations and Constraint establishments
- Machine structure Design using SOLIDWORKS
- Machine construction

Design and Construction of a Hydraulic Powered Arm

April 2018

- Pressure calculations for circuit operation
- Mechanical design and modeling of arm parts to meet the desired degrees of freedom
- Construction of a Hydraulic Powered Arm

TECHNICAL SKILLS

Tools and Technologies: CATIA, AutoCAD, SolidWorks, COMSOL Multiphysics, Arduino, Microsoft Office

Programming Languages: Python, MATLAB, C++

Languages: Persian (Farsi), English

LICENSES & CERTIFICATIONS

IELTS Academic Training (Overall Band Score: 6.5)

November 2022 - November 2024

IELTS Official

- Listening: 6.5
- Reading: 6.0
- Writing: 6.0
- Speaking: 6.5