Shirin **Farsi**

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Education

- 2016-2019: Master of Science (M.Sc.) in Biomedical Engineering-Biomechanics, Islamic Azad University of Tehran Science and Research Branch, Tehran, Iran
  GPA: 16.92/20 (32 Credits)
  Title of thesis: Estimation of Spinal Loads Using Single Muscle Model and Based on Patient-Specific Anatomical Parameters

- 2012-2016: Bachelor of Science (B.Sc.) in Biomedical Engineering-Biomechanics, Islamic Azad University Kerman Branch, Kerman, Iran
  GPA: 17.29/20 (152 Credits)

Research Interests

- Biomechanics and Motor control
- Musculoskeletal modeling and simulation
- Computational Mechanics (Finite Element and Modelling)
- Orthopedics
- Rehabilitation orthosis
- Medical imaging
- Radiotherapy
- Kinematic/Kinetic motion analysis
- Gait analysis

Academic Projects

- ***Master's Final Project:*** Estimating the Spinal loads of L5-S1 and L4-L5 discs by developing a single muscle model and based on anatomical parameters. (Winter 2019)
- Seminar presentation of temporomandibular joint biomechanics, disorders and treatments. (Spring 2018)
- *Jaw and Teeth Biomechanics Course Project:* Analyzing the stress distribution on mandibular of an elderly person, using ABAQUS(v-6.14). (Fall-2018)
- ***Bachelor's Final Project***: Lecture notes on background of Cardiovascular bio-solid mechanics, Mechanical characteristics of the vascular wall, Mechanics of vascular disease states and Vascular grafts and Stents. (Winter-2016)

- *Biomechanics and movement lab Course Project:* Presented a project of basic concepts of human gait and used the Tracker software to compare the walking and running movements in different velocities. (Fall-2015)
- *Types of Knee Orthosis Course Project:* It was an orthosis and prosthesis class project during my B.Sc. and I became familiar with different types of knee braces and also learnt about the application and construction of knee orthosis. (Fall-2015)

Skills

Computer Skills

- ☑ Materialise Mimics(Advanced)
- ☑ ABAQUS (Intermediate)
- ☑ Geomagic wrap(Intermediate)
- ☑ Familiar with Matlab and Solidworks
- ☑ Microsoft office (Advanced)

Language Skills

- ☑ Farsi: Native
- ☑ English: Fluent

- IELTS Academic Score
  (test was taken on 3 March 2018)

  Overall 6.5

  Listening 6.5
  Reading 6
  Writing 6
  Speaking 7

Work Experience

- Internship in Firoozgar Hospital & Clinic of Tehran, working in hospital equipment repairing and quality control and calibration of medical equipment section. (Spring-2019)
- Internship in Shafa hospital of Kerman, worked in hospital equipment repairing section. (Spring-2016)

Workshops

- Human gait data analysis using Matlab in Software training institute-Parspazhohan (Spring 2019)
- ABAQUS Academic Training in Islamic Azad University of Tehran Science and Research Branch. (Fall 2016)
- Materialise Mimics Academic Training in Islamic Azad University of Tehran Science and Research Branch. (Fall 2016)
- Foundation course for repairing hospital equipments in Kerman association of medical equipment. (Summer 2016)
- Solidworks Beginners Training in AmirKabir Jahad Daneshgani Department of Education. (Fall 2014)

Hobbies

- Doing Yoga
- Swimming
- Watching Movies
- Reading books
- Listening to music