

Ali Gilani

Cell Phone: 0912-470 36 31

E-mail: ali.gilani89@gmail.com , ali.gilani@ut.ac.ir



Education

M.Sc. in Mechatronic Engineering, College of New Science and Technology, **University of Tehran**, Tehran, Iran

Thesis: “Design and Simulation of Micro-actuator in bioMEMS Devices for Cell Penetration Application”

GPA: 18.4/20 (Top Three)

B.Sc. Aerospace Engineering, **Sharif University of Technology** (Ranked 1st in Iran)

Thesis: “Signal Processing of structural health monitoring system (SHM)”

Supervisor: Dr. A.Abedian

Diploma in Mathematics and Physics, Allameh Amini High School, Tehran, Iran, 2003-2007

Interest

- Lab on a chip
- Medical devices
- Project management
- Micro-electromechanical systems (MEMS)
- Signal Processing
- Neural Network

Honor and Awards

- Won acceptance in the first stage of the nationwide competition to select Mathematic Olympiad team, 2004, 2005.
- Won acceptance in the first stage of nationwide competition to select Physics Olympiad team, 2005
Ranked 750th among about 400,000 participants in the nationwide universities’ entrance exam in 2007.
- Ranked 22th among 5,000 participants in the nationwide universities’ master entrance exam in 2012 (in Aerospace Engineering).
- Ranked 250th among about 20,000 participants in the nationwide universities’ entrance exam in 2012 (in Mechanical Engineering).
- Third place in the glider design competition in Sharif University of Technology, 2008.

Work Experiences

- PAHPAD Magazine as translator

- Designing and analyzing mechanical systems using CAD software and ANSYS
- Medical device courses in AmirKabir University of technology
- Sales expert in BBRAUN Company

Research Experiences

- **Gilani, A.**, Koohsorkhi, J., Abbasi, R., “Design and simulation of MEMS flow sensor”, ICMEMS February 2014
- **Gilani A.**, Firouzabadi, R., “Modal analysis of nozzle using FEM method and study the effect of geometric parameters” , 2012 , Supervised by Dr. Firouzabadi (Working paper)
- Kosari, A., Ghasemi, P., **Gilani, A.** ,” Stabilization of a Inverted Pendulum using Neural Network NARMA-L2 Controller”
- **Gilani A**, Koohsorkhi J., Askari, A., Ghafoori Fard, H., “Design and simulation of electorostatic actuator with an electorstatic stopper’
- **Gilani A**, Koohsorkhi J, Shamloo A. “Study the mechanical property of ovum cell and impact effect” (Submitted paper)
- Zandi A, Ghafourifard H, Koohsrokhi J, **Gilani A**. “Simple method for low temperature CNT growth and its applications” (Submitted paper)

Teaching Experiences

- 2011, “Geometry”, Teacher
- 2013, “Supplementary Mathematics”, Teacher

Language Skills

- Native in Farsi, Fluent in English, Familiar with Arabic

Computer Skills

- MATLAB
- COMSOL
- SOLIDWORKS
- ANSYS
 - FSI

- Coupled analysis
- Fluent
- LS-DYNA
- Structural and Thermal analysis
- Operating Systems and Microsoft Office
 - Excel, Microsoft Windows, PowerPoint, Word
- M-file Programming, Pascal, C++, C

Extracurricular

- Exchange and capital market
- Traveling and meeting new people and cultures
- Sports (**Swimming**, Tennis, Table Tennis, Bodybuilding)
- Music (Sitar)
- Pencil Drawing
- Photography