

## CURRICULUM VITAE

Name: Alireza Gandominejad

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### **Thesis:**

BS Thesis: Design and construction of an accessory mechanical circuit for parabolic solar collector.

MSC Thesis: Design and construction of an apparatus to rehabilitate human knee joint.

### **Conference paper:**

1- A. Gandominejad, G.R. Vosoughi, M. Parnianpour, "Design and construction of an apparatus to rehabilitate human knee joint and measure its strength", Iran, IES2002.

### **Fields of interests:**

1-Solar collectors 2- Rehabilitation 3- Measurement 4- Control

5- Shape memory alloys 6- Ultrasound 7-biomechanic 8-Robotic c 9-haptic

### **projects:**

1-Design and construction of a system to measure hot oil flow and temperature.

2-Design and construction of a system to measure emissivity coefficient of any surface.

3-Design and construction of a torque sensor.

4-Creating input and output blocks (A/D, D/A and Ecoders) for simulink environment using c-mex files

5-Design PID controller for position loop control using Zickler-Nicoles method for a servomotor

6-Position control and path generation of a servo motor using simulink block, real time windows target, tachometer and encoder sensors

7-Identification of a system including servomotor, speed controller and speed reduction system using frequency response method.

8- Damping Control (Calculating speed set point from force feed back in a speed control loop).

9-haptic