

Abdelhady Moustafa Abdelhady

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PERSONAL

INFORMATION:

Date of Birth : 27/9/1988
Gender : Male
Marital Status : Married
Nationality : Egyptian
Military service: Exempted

EDUCATION:

Assiut University 2006-2011
BSc in Mechanical Engineering
Minor: Mecatronics branch .
Grade: Very good with Honors, degree (81.3%)

PROJECTS:

- Force platform.** 2013
I participated with professor from Faculty of Physical Education to make Shoes that can make analysis to human step. I helped him in design the shoes ,make strain gauge amplifier, transfer data to computer and store data real time to excel sheet. This work was published in conference in germany.
- Building an XY stage for patterning photoresists using Laser diodes.** 2012
I participate with student to build XY stage to use it in microfluidics fabrication. The stage that was build have the ability to make channels small than 100 µm wide. We achieved to make user draw the master in solidwork program, then the stage draw the master in substrate automatically.
- Computerize a hydraulic machine using labview.** 2012
I achieved to convert a hydraulic machine (Tinius olsen) from manual usage to computerized by using labview .I achieved to communicate with machine via serial interface . I achieved to make automatic data acquisition by time and by different values. I also achieved to display to user the behavior of the specimen on the screen real time . Finally I achieved to save 5200 pounds to our university.
- Macro tactile sensor (graduation project)** 2010-2011
We used NI hardware(usb DAQ 6210) to make a novel tactile sensor design for stiffness detection of soft tissues . We designed, fabricated and tested a macro scale module in order to evaluate the sensor before miniaturize it.
- Strain gauge circuit** 2010-2011
We achieved to make Signal conditioning circuit for Strain gauge by using

NI hardware (usb DAQ 6008). We achieved to reduce cost 22000 Pounds.

•**SCARA Robot** 2010-2011

I participated with a team make a control on the motors of the SCARA Robot by NI hardware (MID-7654 servo motor drive), after we achieved that I succeeded to make programs that make the robot draw lines , circles and write some letters.

•**Small Robot walks on water** 2010

I have achieved with a team making a robot walks on water depend on surface tension property.

•**Robocon competition** 2009

I participated with a team in this competition, I was responsible for making program for the automatic robot.

•**Robocon competition** 2008

I participated with a team in this competition; I was responsible for making mechanical design for the robot.

EXPERIENCE:

Teaching experience

Assiut University.

2012-
Present

- Demonstrator for teaching c++ course
- Demonstrator for teaching labview Laboratory.
- Demonstrator for teaching control I.
- Demonstrator for teaching modeling and simulation.
- Demonstrator for teaching measurements
- In our laboratory I have an experience in teaching interface and Communication with labview through serial and parallel ports and making interface between pc and microcontroller.

TRAINING:

- Assiut Petroleum (Assiut) 2006-2007
- The new and renewable energy agency (Cairo) 2009
- Aluminum Company at Rolling Sector & Extrusion Plant (Qena) 2010
- Programming CNC Milling Machine FUNC 21I (Assiut) 2010
- ICDL (Assiut)

Conferences:

- Special Day with NI-DO Engineering (2015)
- 7th cairo international biomedical Engineering conference CIBEC (2014)
- Special Day with NI-DO Engineering (2014)

publication:

SKILLS:

Language skills

- **Arabic:** Mother Tongue
- **English:** Very Good.

Computer skills

➤ **Control programs:**

PLC Allen-Bradley programming.
PIC C.
Micro C.
PLC Siemens S7 programming.
LabView.

➤ **Simulation programs:**

Eagle
Protuse
SolidWork.
Automation studio
MultiSim.

➤ **Other :**

Image J.
NI Vision development module
NI Vision Acquisition module
NI DAQ
MatLab.
MS office (word ,Power point, Excel)
C++.