

Ehab Faidallah

Mechatronics Engineering
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Interests

Embedded system, Bio-mechatronics and Robotics.

Education

- 2013 M.Sc. Mechanical Engineering, Benha University, Qalyubia, Egypt.
Thesis Title “Modeling, Simulation and Control for a Gripper Hand Robot via Mixed Reality and EMG Signal”.
- 2007 B.Sc. Mechatronics Engineering, The Higher Technological Institute, sharqiya, Egypt.

Training ,courses and Certifications

- 2015 Certified LabVIEW Associate Developer.
- 2014 LabVIEW core1, core2 course training.
- 2008, 2010, 2013 Participate in “Joint International Master Degree and Lifelong Learning framework in Mechatronics” (JIM2L) ToT Training in Silesian University of Technology, Poland. *Click here for JIM2L program details*

Employment

- 2008 - Now The Higher Technological Institute TA Mechatronics Dept.,

Research Skills

Programming in LABView, Matlab, C, C++, Python
Programming Industrial Robots (Kuka)
Programming PLCs
Using CAD software (solidworks, Inventor)

Recent research activity

Adaptive grasping
Control Industrial robot (kuka) using ROS

Research Experience

Supervise over than 50 student couerse project (Mechatronics system design course) sharing knowledge with students: working in a teams, Mechanical design, PCB design, interfacing and control, sensors and motors selection, programming and simulation.

Teaching

- Mechatronics system design
- Introduction to mechatronics
- Measurement and instrumentation + Lab.
- Mechatronics workshop (diploma project)
- Digital circuits + Lab.
- Computer systems (Microcontrollers)
- Computer programming (C Language)
- Electronics principles + Lab.
- CAD Lab. (Auto CAD + Solidworks)

Publications

Faidallah, E.M.; Hossameldin, Y.H.; Abd Rabbo, S.M.; El-Mashad, Y.A., "Control and modeling a robot arm via EMG and flex signals," Research and Education in Mechatronics (REM), 2014 15th International Workshop on Research and Education in Mechatronics, vol., no., pp.1,8, 9-11 Sept. 2014.

Conferences

2014 Research and Education in Mechatronics (REM) 2014 ,15th International Workshop on Research and Education in Mechatronics.