Dana Mohammad Ra'fat Ragab

Personal Information

- Marital status: Single
- Date of birth: 18-11-1993
- Nationality: Palestinian
- Phone: 00972-592697973
- E-mail: dmrafat@gmail.com
  dana.rajab@ptuk.edu.ps

Education

2016 – 2018 Philadelphia University Amman-Jordan

MSc Degree in Mechatronics Engineering

(Total GBA of 88.9 out of 100 – Excellent – ranked as the First on the department)

Thesis title: Enhancing the Response of Thyristor-Controlled- Reactor Using Neural Network.

2011 – 2015 Philadelphia University Amman-Jordan

BSc Degree in Mechatronics Engineering

(Total GBA of 93.4 out of 100 – Excellent – ranked as the First on the department)

Work Experience

- **Lecturer** (2018- till now)
  Mechanical/Mechatronics Engineering Department, Faculty of Engineering and Technology, Palestine Technical University, Tulkarem-Palestine.

- **Teaching Assistant** (2016-2017)
  Mechatronics Engineering Department, Faculty of Engineering and Technology, Philadelphia University, Amman-Jordan

Publications

1. **D. Ragab**, J. Ghaeb and I. Al-Naimi, " Enhancing the response of thyristor - controlled reactor using neural network". International Transactions on Electrical Energy Systems**,** Wiley & Sons, 29(12),2019.

2. **D. Ragab** and J. Ghaeb, " A Linear Relation for Voltage Unbalance Factor Evaluation in Three-Phase Electrical Power System Using Space Vector ", International Conference on Electric Power Systems, Physical Networks and Components (ICEPSPNC), Madrid, Spain; 3/ 2019.

3. **D. Ragab** and J. Ghaeb, " A Neural Network Control for Voltage Balancing in Three-Phase Electric Power System ", International Conference on Electric Power Systems, Physical Networks and Components (ICEPSPNC), Madrid, Spain; 3/ 2019.

4. J. Ghaeb, **D. Ragab** and I. Al-Naimi, " Fast Correction of Voltage Unbalance Factor in Three-Phase Power System Using Neural Network ", IEEE 11th International Symposium on Mechatronics and its Applications (ISMA), Sharjah, United Arab Emirates; 3/2018.

5. R. Dlear, **D. Ragab** and T. Tutunji “Mechatronic System Design Project: A 3D Printer Case Study” IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Dead Sea, Jordan; 11/2015.

6. L. Al-Sharif, T. Tutunji, **D. Ragab** and R. Dlear “Using Elevator System Modeling and Simulation for Integrated Learning in Mechatronics Engineering” IEEE 15th International Workshop on Research and Education in Mechatronics (REM), El Gouna, Red Sea, EGYPT; 09/2014.

Awards

First Place, National Technology Parades (NTP8), University of Jordan, for the project entitled "Design and Implementation of 3D Printer Prototype", 2015.

Qualifications

- Perfect knowledge in computer skills (ability to deal with Microsoft office programs and MATLAB).
- Ability to learn and perform researches.
- Ability to work under pressure.
- Ability to work with a team.
- Having motivation and a positive attitude.

Full Time Lecturing Experience

Taught courses:

- Special Topics in Mechatronics
- Engineering Applications Using MATLAB
- Sensors and Transducers
- Mechanics for Electrical Engineering
- Design Modeling and Simulation
- Engineering Drawing
- AutoCAD
- Microcontroller Lab
- Control Lab
- Mechatronics System Design Lab
- Introduction to Digital Logic and Programmable Logic Controller Lab
- Heat Transfer and Fluid Mechanics Lab

Teaching Assistance Experience

Lab supervision

- Programming for mechatronics
- Engineering drawing

Tutorials

- Dynamic and vibration
- Electrical machines for mechatronics
- Modeling and simulation (using MATLAB)

Research Experience

- Neural Network Control

Neural network control for unbalanced three phase electrical power system. The neural network is used to adjust the reactive power generated by the thyristor-controlled-reactor compensator (Thesis).

- Design and implementation of 3D printer prototype

- Modeling and speed control of elevator system

Symposiums, Seminars &Workshops

- Participation in **Unmanned Ground Vehicles Seminar: Basic Applications and Challenges for Mobile Robots** at Hashemite university; 12/2013.

- Participation in **Personal Strategic Planning** course and completion 16 hour of training according to the International Academy of Personal training and leadership development; from 28 Feb until 3 Mar 2012.

Languages Arabic and English

References

- Dr. Jasim Ghaeb
Faculty of Engineering and Technology
Mechatronics department
Philadelphia University
Amman – Jordan
jghaeb@philadelphia.edu.jo
Mobile: 00962-796254474

- Dr. Tarek Tutunji
The Dean of Faculty of Engineering and Technology
Mechatronics department
Philadelphia University
Amman – Jordan
ttutunji@philadelphia.edu.jo
Mobile: 00962-777464516

- Prof. Lutfi Al-Sharif
The head of Mechatronics department
Faculty of Engineering and Technology
University of Jordan
Amman – Jordan
lal-sharif@theiet.org
Mobile: 00962-796000967

- Dr.Ibrahim Al-Naimi
The head of Mechatronics department
Faculty of Engineering and Technology
Philadelphia University
Amman – Jordan
inaimi@philadelphia.edu.jo
Mobile: 00962-790968272