

Curriculum vitae

Ra'ed Fathi Hasan Aqeil

raqeil@fbsu.edu.sa

raidf@yu.edu.jo

00962779922942

00966590749802

Address : Irbid-Jordan
Gender : Male
Date of Birth : 24 June 1976
Marital Status : Married
Nationality : Jordanian

EDUCATION

Feb 2000 **Yarmouk University**
Bachelor degree in electrical engineering

- Courses Programs
 - Electrical Measurements and Circuit Theory.
 - Electronics (Components–Digital Technology –Basic Electronics).
 - Power Electronics.
 - Power System Analysis.
 - Logic Circuit Design and Microprocessor Systems.
 - Managements and Economics for Engineering.
 - Electromagnetic theory (Basic and Energy conversion).
 - Automatic control.
 - High Voltage Techniques.
 - Electric Machines.
- Graduation Project
 - Symmetrical and Asymmetrical fault Analysis .

Aug 2011 **Yarmouk University**
Master degree in electrical engineering

- Courses Programs
 - Power Systems Protections.
 - Power Systems Operation & Control.
 - Modern Control Theory.
 - Advanced Analysis of Electric Machine.
 - Distributions Systems.
 - Advanced High Voltage Engineering.
 - Power Electronics.

- Master Thesis

Optimization of Sensorless Vector Control of Linear Induction Motor Using Simulated Annealing Algorithm

EXPERIENCE

Oct 2000-Aug 2018 **YRMOUK UNIVERSITY** www.yu.edu.jo - Jordan
Hijawi Faculty of Engineering
Lab Engineer

Duties & Responsibilities

- Preparation for the experiments requirements and theory's.
- Follow each lab experiment reports and prepare quizzes for students.
- Teach the students how to prepare & write the reports according to the following procedure
 - Objective: Give a short description of the purpose of the experiment.
 - Theoretical background: Give a brief description of the relevant theory.
 - The experimental procedure: Summarize what was done for each experiment procedure. Report the measurement and other experimental data.
 - Analysis of experimental data: Analyze the data. Compare with theoretical results. Produce graphs using MATLAB or MS-Excel and embed the graph figure into the main body of the report. Include figure number and caption. Label axis. Show units. Tables and graphs should appear inserted in the text close to the place they are first mentioned and in the same section.
 - Conclusions: Summarize the experiment and the results. Discuss the factual knowledge gained.

LAB's

- **Electrical Circuit:** This lab is to introduce the students to the basic electrical equipments in the lab and to be able to deal with some of the frequently used instruments and equipment; like the digital multimeter , DC Power supply , oscilloscope and function generator.
Introduce the students to resistance color code, measurements, types of Electrical Measurements and analyzing the circuits (KCL, KVL, thevenin, maximum power transfer, resonance & types of filter).
- **Electrical Machine Lab:** This lab is to introduce the students to the machines equipments and components, connections diagrams, fixed and variable DC&AC voltage, Speed Control of DC&AC Motors, DC&AC generator, Load Characteristics, DC motor, Magnetization Characteristic (Series Motor), Single & Third Phase Transformers, connections between 2 generators and supply the systems.
- **Electrical Measurements Instrumentation Lab:** This lab is to introduce the student's circuits instruments and circuit measurements, Moving coil meters. Galvanometers, DC and AC bridges. Energy meters. Power factor measurements. Current and voltage transformers. Digital Oscilloscope and XY-recorders. Transducers, Power analyzer. High Voltage measurements.

- **Power Electronics:** This lab is to introduce the students to the rectifier and inverter circuits. The BWM techniques and electric motor drives is also in introduced to the students.
- **Automatic Control:** This lab is to introduce the student's to the PID controllers, Time invariant control systems, different PID design methods like root locus and ZN method, dead time element controller, ON-OFF controller, temperature control system and some other practical control system.

Sep 2011-June2013

YRMOUK UNIVERSITY www.yu.edu.jo - Jordan
Hijawi Faculty of Engineering
Part-time lecturer

- Part-time lecturer for the following courses: Electric Circuits, Electric Machines, Power System Analysis and Power Electronics for two academic years.

Sep 2018-Now

FAHAD Bin SULTAN UNIVERSITY www.fbsu.edu.sa - KSA
Engineering collage
Lecturer

- Full-time lecturer for the following courses: Electric Circuits (AC , DC), Electric Machines, Power System Analysis, Renewable Energy, Power Electronics and Engineering Economy, .

Publications

- Haythem Bany Salameh, Mohammed Dhainat, Ali Al-hajji, Raed Aqeil, and Mohammad Fathi, "Design and Implementation of an Event-driven Hybrid MAC Protocol for a Two-tier Cognitive Wireless Sensor Networks," Proc. of the IEEE International Conference on Cloud Engineering (IC2E'15)-software-defined systems, Arizona, USA, March 2015.
- Haythem Bany Salameh, Mohammed Dhainat, Ali Al-hajji, Raed Aqeil, and Mohammad Fathi, "Design and Implementation of an Event-driven Hybrid MAC Protocol for a Two-tier Cognitive 13 Wireless Sensor Network," International Journal of Communication Networks and Distributed Systems, 2015.

SKILLS AND ACTIVITIES

- Accomplished in setting and meeting deadlines.
- Excellent interpersonal skills.
- Strong leadership qualities.
- Motivated with high level of communication and Public relations.
- Ability to learn.
- Working under pressure and meeting deadlines.

Additional Qualification

- Computer assembly & disassembly.
- Excellent experience in C++.
- Excellent experience in MATLAB.
- Excellent Knowledge of Arduino microcontrollers.
- Excellent Knowledge of PIC microcontrollers.
- Excellent Knowledge of PLC.
- PowerWord Simulator.
- Valid Driving License.

- Membership of Jordanian Engineering Association (JEA) since 2000.

Languages

- Arabic (mother Tongue language)
- Fluent in spoken and written English

Notes

- All documents are available when requested (certificates & recommendation letters and experience letters).
- Teaching language in Yarmouk University is English language.

*Thank You,
Yours Truly, Ra'ed Aqeil*