

C.V

Nagi F Ali Mohamed

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Personal Summary

An ambitious, talented and self-motivated Electrical engineer with a pretty good technical background who possesses a great knowledge of electrical and electronics subjects. Having the ability to work independently with minimal supervision, the ability to think logically and develop effective solutions to problems in new situations. Having an excellent capacity of communication skills alongside a capacity to advise and implement teaching skills.

Always keen to find an appropriate position with successful, ambitious and developed institutions.

Work Experiences

Department of Electrical Engineering, Collage of Engineering Technology, Houn, Libya

Demonstrator July 2007 – 2009 Responsible for giving tutorials to help students understanding the major lecture related. Also involved in some labs to teach students the theoretical part of some subjects practically.

Duties

Engaged in: Analogue Electronics Lab, Digital Electronics Lab, Physical Electronics Lab, Wiring and Installation Lab, and Circuit I Tutorial

*Department of Electrical Engineering, Collage of Engineering
Technology, Houn, Libya*

Lecturer July 2013 until now Responsible for giving lectures to students.

Duties

Engaged in subjects: Signals and systems analysis, Electronics II, Digital Logics, Electronics Lab and Telecommunications I.

Key Skills and Competencies

Good user knowledge of computer skills and mobile-based software. Cisco networking skills. Full knowledge of Telecommunications design with technical understanding. Good knowledge of C, Java and Android SDK programming platforms. Proficient in Microsoft Office (Excel, Word, PowerPoint) and Matlab programing. Proficient in CelPlan – CelPlanner 9.3 (Wireless Global Technologies) for GSM. Communications, DSP, RF/Analog system design using System View program.

Academic Qualifications

MSc Telecommunication and Network Engineering La Trobe University, Melbourne, Australia 2011- 2012

BSc Electrical and Electronics Engineering University of Garyounis, Benghazi, Libya 2005 – 2006

Projects and Theses

“Radiation Effect of Mobile Communication” July 2006 The project provides an explanation of some multiple accesses, principles of Cellular system and the usual problems happened in Cellular system with the way to improve it. The case study was Libyana network in Benghazi city of Libya to find solution for base stations to reduce the risk of radiation effect on human body.

“Cellular Mobile Radio Telecommunication Network Planning” October 2011 The project designs and investigated the effects of a geographical data on the modeling of cellular mobile radio network (GSM) in a specific area within Shreveport city in USA as well as getting familiar with the traffic channels allocated in that area by tackle the problem behind traffic services. The issues (reflection, refraction, absorption, traffic channel, QoS and interference) were solved by employ 27 base stations that distributed in a certain network design using cluster of four cells.

“Wireless Energy Transfer and Broadcasting” October 2012 The thesis proposed a newly hexagonal wireless power transfer design to provide effective magnetic field signal accurately in multi-directions. The design can be used in a power network much like a cellular system concept to achieve good effective distances and spread of the field regions.

Papers

“Design and study of multi-dimensional wireless power transfer transmission systems and architectures”

Authors: JI Agbinya, NFA Mohamed

Publication date: 2014/12/31

International Journal of Electrical Power & Energy Systems 63,
Pages: 1047-1056

“Design of multi-dimensional wireless power transfer systems”

Authors: Nagi F Ali Mohamed, Johnson I Agbinya

Publication date: 2013/7/13

Conference: Information Science, Computing and
Telecommunications (PACT), 2013 Pan African International
Conference on

Pages: 85-91

Publisher: IEEE

“Frequency Allocation in Wide Area Inductive Energy Transfer Systems”

Authors: Nagi F Ali Mohamed, Johnson I Agbinya, Khalid Aboura

Publication date: 2016/1/25

Conference: The 2nd International Conference on Communication, Information Technology and Robotics 2016

Pages: 2-6

Publisher: The N&N Global Technology (NNGT)

“Multi-Dimensional Wireless Power Transfer Systems”

Authors: Nagi F Ali Mohamed, Johnson I. Agbinya

Publication date: 2015/5

Book: Wireless Power Transfer, 2nd edition

Pages: 587 - 621

Publisher: River Publishers

“Multi-Spectral and Multidimensional Wireless Power Transfer Systems”

Authors: Nagi F Ali Mohamed, Johnson I Agbinya, Khalid Aboura

Publication date: August 2016

Conference: INTERSYMP 2016 28th International Conference on Systems Research, Informatics and Cybernetics.

Awards and Honors

“The Electronic Engineering Prize for Best Masters Project”, Sponsored by The Department of Electronic Engineering, La Trobe University.

Participate in the “20th Hooper Memorial Project Presentations” for the year 2012.

References

Available on request.