CURRICULUM VITAE

PERSONAL INFORMATION

Name: Nada Nabil El-Maradny
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EDUCATION

B.Sc. (with Honor) in Electronics and Communications Engineering
Date degree awarded : September 2014
College/Faculty : Electronics and Communications Department- Faculty of Engineering
University : Arab Academy for Science, Technology & Maritime Transport (AASTMT)
GPA : 3.99 , Excellent with Honors
Graduation Project subject : In-car health monitoring and assistance system (A system that monitors the heart rate , breathing rate and many other additional medical data and send this data in real time to doctors and hospitals in case of emergency using various communication modules .
Grade (A+)

M.SC. in Electronics and Communications Engineering
Date degree awarded: May 2017.
College/Faculty: Electronics and Communications Department- Faculty of Engineering
University: Arab Academy for Science, Technology & Maritime Transport (AASTMT)
GPA: 4
Major: Communications Engineering
Thesis Title: BER Performance and Maximum Allowable Data Throughput of On-body Medical Body Area Network.
Grade (Excellent)

Studied courses during the M.SC. program

- Advanced Digital Communications
- Advanced Digital Signal Processing
- Antenna Engineering
- Neural Network Applications
- Communication Seminar
- Advanced Engineering Mathematics
- Applications of SAW and CCD in communication
- Computer Aided Design
- Thesis Part I
- Thesis Part II

JOB EXPERIENCE

Graduate Teaching Assistant (GTA): September 2014- Present
Department of Electronics and Communications, Arab Academy for Science, Technology & Maritime Transport (AASTMT)

- Aiding and helping undergraduate students during tutorial and lab sessions at AAST.

- Participating in administrative duties within the faculty.

- Teaching multiple undergraduate courses such as:

  - Electronic Devices I (Giving discussion session in topics related to semiconductor materials, diode construction, diode physics, diode applications)

  - Introduction to digital communication systems (Giving discussion session in all types of digital modulation and signal space).

  - Signals and Systems (Giving discussion sessions on all kinds of signals, Fourier transform Fourier series and Hilbert transform).

  - Acoustics (Giving discussion session in one dimensional and 3D acoustical systems).

  - Microelectronics (Giving discussion session in most electronics systems like operational amplifiers, differential amplifiers, OTA and digital circuits)

- Lab Administration

  - Introduction to digital communication (Matlab programming and using digital modulation boards of Lab view)

  - Signals and Systems (Matlab programming)

  - Electronic Amplifiers (frequency response of common emitter, base, and collector design and construction of a class A, B, AB power amplifier).

  - Microelectronic Circuit (Design and construction of current mirrors, design simulation and construction of Differential Amplifier and Op-Amp applications).

COMPUTER SKILLS

1. MATLAB (programming, SIMULINK; communications and DSP toolboxes)
2. ICDL (Microsoft word , excel , access , power point)
3. C programming language.
4. Worked with Android and Java

Languages

1. Mother tongue: Arabic
2. Fluent (native speaker) English.

Volunteer Work

IEEE volunteer