

CURRICULUM VITAE

Name : Khaled Hassan Mohamed Elzaafrany
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EDUCATION

- PhD degree from electrical and computer department at University of Alabama at Birmingham
- M.Sc. in Electronics and Communications, from the Faculty of Engineering and Technology at the Arab Academy for Science and Technology.
 - Supervisors: **Prof. Dr. Maha Sharkas and Dr. Abdel El-Moneim Abd El-Bary**
 - Thesis title: **Continuous Time and VHDL Based Event Driven Lumped - Distributed Modeling of Heart Chaotic Behavior.**
 - Publications: Khaled Elzaafrany, A. A. Nasser, M. Sharkas, "Heart Nodal Escape under Large Slow Adaptation Current" *Minufiya Journal of Electronic Engineering Research*, January 2011, pp 61-72.
- B.Sc. of Electronics and Communications from the Faculty of Engineering and Technology at the Arab Academy for Science and Technology and Maritime Transport.
 - Date of graduation: 07/2008
 - Graduation project: Multimedia Mobile Communications.

WORK EXPERIENCE

Arab Academy for Science and Technology (AAST), Alexandria, Egypt:

- **Electronics & Communications Engineering Department:**
 - **Teaching Assistant & Lab Assistant** (August 2008-Present)
 - 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 2** (Giving discussion session in topics related to DC Solution of BJT, FET circuits and their AC analysis).
 - **Electronic Measurement** (Giving discussion sessions on Oscillators, different types of Transducers, Analog to digital and digital to analog converter problems and Attenuators design circuit).
 - **Electronics 1** (Giving discussion session in topics related to p-n junction diode and its applications, problems in BJT and FET analysis in dc and AC).
 - **Analog and Digital Signal Processing** (Giving discussion session in topics related to Sinusoidal oscillators, Multivibrators, differentiating and integrating circuits, Clipping and clamping circuits, Design of analog filters, S/H circuits, Quantization techniques, Analog to digital converters, Introduction to discrete time transform the DFT and DCT, the FFT Design of IIR filters).

- **Lab Administrations:**
 - **Electronic Devices 2** (design circuits on pn junction like clipping, clamping, half wave rectifier, full wave, voltage doublers, design circuit on common emitter, collector and base).
 - **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).
 - **Analog Signal Processing** (Design circuit of time response, RC circuits, frequency response of RC circuits, design circuit on Astable Multivibrators, Monostable using OPAMP, Design and construction of 555 Astable and Monostable Multivibrators, Design and construction of active filters).
- **Research Activities** (Sep. 2008 - Present)
 - Performing research in the field of Biomedical Engineering.
- **Academic Activities:**
 - Member of undergraduate registration committee performing tasks such as: Class Scheduling, Student registration and Academic advising of undergraduate students.
 - Member of graduation projects committee, actively involved in all the aspects of the committee.
 - Coordinating multiple graduate and undergraduate events.

LANGUAGES:

- Mother tongue: Arabic
- Fluent (native speaker) **English**.
- Excellent communication skills in all two languages

COMPUTER and other SKILLS

- Experience with simulation programs such as Matlab, Simulink, P-spice, Workbench Multisim and Xilinx ISE.
- C programming language
- Good command of computers, ICDL (certified)

REFERENCES

- **Prof. Dr Arie Nakhmani** (Professor, University of Alabama at Birmingham)
- **Prof. Dr. Maha Sharkas** (Professor Doctor, Collage of Engineering, AASTMT)
- **Dr. Abdel El-Moneim Abd El-Bary** (Professor Doctor, Collage of Engineering, AASTMT)