

# CURRICULUM VITAE

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Date of Birth : 22-01-1990

## OBJECTIVE

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To achieve my goal of enriching my knowledge, starting by conducting PhD studies in electronics and communication engineering. I hope to be an active member of a research group at a prestigious university.

## EDUCATION

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- 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 Prof. Dr. Iman Morsi.
- **Thesis title:** “*Implementing a portable Electronic Tongue for Ascorbic Acid Determination*”.
- **Publications:** A. Ali, I. Morsi and M. Sharkas, “*Determination of Ascorbic Acid Level in Orange Juice using an Open-source Potentiostat & Screen Printed Electrodes*” in Proceedings of the 5th International Conference on Sensor Networks, Rome, 2016.
  
- B.Sc. in Electronics and Communications Engineering; Faculty of Engineering and Technology; Arab Academy for Science and Technology and Maritime Transport.
- **Date of graduation:** 07/2012
- **GPA:** 3.98; Excellent with Honors
- **Graduation project:** “*Microcontroller-Based Artificial Kidney*”

# WORK EXPERIENCE

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## Arab Academy for Science & Technology Alexandria, Egypt:

- **Electronics & Communication Department:**
  - Teaching Assistant ( August 2012- 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 I (Giving discussion session in topics related to semiconductor materials, diode construction, diode physics, diode applications)
      - Electronic Devices II (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 (Giving discussion session in topics related to p-n junction diode and its applications, problems in BJT and FET analysis in dc and AC).
  - Lab Administration
    - ◆ Electronic Devices II (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).
- Research Assistant (January 2013 -Present)
  - ◆ Performing research in the field of Transducers and Signal Processing, and specifically Electronic Tongue Modeling under the supervision of Prof. Dr. Maha Sharkas and Prof. Dr. Iman Morsi.

- Academic Activities
  - ◆ Member of undergraduate registration committee performing tasks such as: Class Scheduling, Student registration and Academic advising of undergraduate students.
  - ◆ Member of undergraduate Scheduling committee performing tasks such as: arranging time tables and schedules for department students and staff.
  - ◆ Member of graduation projects committee, actively involved in all the aspects of the committee.
  - ◆ Coordinating multiple graduate and undergraduate events.

## LANGUAGES

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

## COMPUTER SKILLS

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

*References are available upon your request*