Curriculum Vitae

PERSONAL INFORMATION

Date of Birth:	3 / 11/ 1987 – Qalyiobia – Egypt
Gender:	Female
Marital State:	Married
Religion:	Muslim
Nationality:	Egyptian
Address:	Dar Masr Gharb, 10th of Ramadan City, Sharqiya
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ACADEMIC QUALIFICATION:

- **B.Sc. in physics – Faculty of Science – Ain Shams University**

Subject Of Study: Electronics

Major Grade: Very Good

Last year Excellent

Project Grade: Excellent

Date of Graduation: June 2009

Project Subject: Microprocessor Based Solar Tracking System Using Stepper Motor.

- **M.Sc. in Physics - Faculty of Science – Ain Shams University March 2016**

Subject of Study: Digital Signal Processing

Thesis Subject: Implementation of Parallel Digital Signal Processing Circuits using Field Programmable Gate Array.

- **PhD in Physics - Faculty of Science – Ain Shams University 2024.**

Subject of Study: High Energy Physics

Thesis Subject: Detectors Optimization Study for Low and High Energy Radiation.

CAREER GRADATION:

Teaching Assistant

ADMINISTRATIVE ACTIVITY

- MATLAB.

- VHDL.
- ORCAD Design and layout (ITTC UNIT FACULTY OF SCIENCE AIN SHAMS University).
- Verilog (self-study).
- Lab view (self-study).
- Data Analysis.
- Artificial Intelligent.

PUBLICATIONS

1- Implementation of high performance electronic circuits for zero suppression and encoding of digital signals.
https://www.scirp.org/journal/paperinformation.aspx?paperid=59081

2- Performance of GE1/1 Chambers for the CMS Muon Endcap Upgrade
https://arxiv.org/pdf/1903.02186.pdf

3- Operational Experience with the GEM Detector Assembly Lines for the CMS Forward Muon Upgrade
https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8469076

4- Layout and assembly technique of the GEM chambers for the upgrade ofthe CMS first muon endcap station
https://reader.elsevier.com/reader/sd/pii/S0168900218316371?token=A2F7CD2738D8F47997BB9D9928DF3C2FE5954A52017A08F3888FDF45B7405B5B8AFE0292EAE4614E2C4E3ACAB9822F5A

5- Design of a constant fraction discriminator for the VFAT3 front-end ASIC of the CMS GEM detector
https://iopscience.iop.org/article/10.1088/1748-0221/11/01/C01023/pdf

6- Fiber Bragg Grating (FBG) sensors as flatness and mechanical stretching sensors
https://www.sciencedirect.com/science/article/pii/S0168900216000875?via%3Dihub

7- Reduction of high voltage discharge in GEM detectors for the ME0 station of the CMS forward muon system

https://www.researchgate.net/publication/369612846_Reduction_of_high_voltage_discharge_in_GEM_detectors_for_the_ME0_station_of_the_CMS_forward_muon_system

8- Synthesis and characterization of high-sensitivity Dy,Eu co-doped CaSO4 thermoluminescent phosphor using coprecipitation technique

SCIENTIFIC ACTIVITY

-Attending several months at CERN, *Switzerland-France* for participating and collaborating in the muon system upgrade of CMS detectors from 2014 till now.

-Working on FPGA kits all through master work.

- Data analysis using ROOT.

- Good knowledge about Garfield and GEANT4.

INTERNATIONAL COOPERATION

I'm a member of the Egyptian Network for High Energy Physics (ENHEP), which collaborates with CERN (CMS Experiment), Geneva, Switzerland.

TEACHING EXPERIENCE

I worked as a physics teaching assistant from 2009 till 2016 and working as assistant lecturer from 2016 till now at the Higher Technological Institute.

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