



Abdelhady Ali

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Home: 5, Dar Misr, 11828 Cairo (Egypt)

WORK EXPERIENCE

Electronics engineer

[1 Sep 2009 – 1 Oct 2015]

City: Giza

Country: Egypt

Business or sector: Manufacturing

- Test electronics circuit board
- Verification engineering
- Design electronics circuit board
 - Design analog ICs
 - Design digital ICS

Electronics engineer

Modern for electronics [15 Oct 2015 – Current]

City: Cairo

Country: Egypt

Business or sector: Manufacturing

- 1- Design electronics circuit board
- 2-Test electronics circuit board.
- 3- Design electronics devices

University teaching assistant

faculty of engineering , Ain shams university [14 Aug 2014 – Current]

Business or sector: Manufacturing

- Teach electronics devices.
- Teach quantum mechanics.
- Teach semiconductor physics.
- Teach Digital electronics circuit design (VHDL).

EDUCATION AND TRAINING

PhD, Doctor of Philosophy

[16 Sep 2018 – 18 Jul 2023]

City: Cairo

Country: Egypt

Website: <https://www.asu.edu.eg/>

Field(s) of study: Electronics | Electronics

Final grade: 4 – Level in EQF: EQF level 8

Thesis: Design of Nanowire Detectors

- Quantum mechanics
- Smart integrated circuit
- Modeling electronics devices

Master , Implementation and Characterization of X-Ray Imaging System

Faculty of engineering , Ain shams university [15 Feb 2012 – 14 Jul 2017]

Address: 1 El Sarayat St., ABBASSEYA, 11535 Cairo (Egypt)

Website: <https://eng.asu.edu.eg/>

Level in EQF: EQF level 8

- Radiation detection
- Nanotechnology.
- Power Devices (IGBT).
- Mixed-Mode circuit design
- Designing of Smart Power Integrated Circuits.
- RF Power amplifiers.

Diploma High Voltage of Higher Studies

faculty of engineering, Cairo university [22 Sep 2009 – 20 Jun 2011]

City: Giza

Country: Egypt

Website: <http://eng.cu.edu.eg/en/faculty-of-engineering/>

Field(s) of study: Mathematics and statistics

Level in EQF: EQF level 8

- Advanced topics in microwave engineering and their applications
- High voltage engineering
- Applications of high voltage engineering
- accelerator particle

B.Sc. in Electronics Engineering

Faculty of Engineering, Al azhar University. [21 Sep 2005 – 30 Jun 2009]

City: cairo

Country: Egypt

Field(s) of study: Basic / broad general programmes

Level in EQF: EQF level 7

- Electronic devices and circuit
- Analog and digital communication
- Microprocessors architecture
- Integrated circuit (analog and digital)
- Microwave engineering
- Laser and optics communication

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Outlook / Microsoft

PUBLICATIONS

Publications

- 1- **Ellakany, A.**, Shaker, A., Abouelatta, M., Hafez, I. M., & Gontrand, C. (2016, December). Modeling and simulation of a hybrid 3D silicon detector system using SILVACO and Simulink/MATLAB framework. In *Microelectronics (ICM), 2016 28th International Conference on* (pp. 377-380). IEEE.
- 2- **Ellakany, A.**, Abouelatta, M., Ghazala, A., Sayah, G., & El-Banna, M. (2017). TCAD simulation of a proposed 3D CdZnTe detector. *The Journal of Engineering*, 1(1).
- 3- **Ellakany, A.**, Abouelatta, M., Shaker, A., Hafez, I. M., & Gontrand, C. (2019). Development and simulation of 3D CdTe Pillar detector. *IEEE Transactions on Radiation and Plasma Medical Sciences* (Revised).
- 4- **Ellakany, A.**, Abouelatta, M., Hafez, I., El-Rabaie, S., & Gontrand, C. (2019). Towards 3D Nuclear Detectors. *Me noufia Journal of Electronic Engineering Research*, 28(2), 79-96.
- 5- **A. Ellakany**, M. Abouelatta, A. Shaker, C. Gontrand and I. M. Hafez, "Design and Simulation of 3-D CdTe Pillar Detectors," in *IEEE Transactions on Electron Devices*, vol. 67, no. 12, pp. 5564-5571, Dec. 2020, doi: 10.1109/TED.2020.3028324.
- 6- **Ellakany, A.**, Zekry, A., Abouelatta, M., Shaker, A., Sayah, G.T. and El-Banna, M.M., 2023. Analytical and Numerical Investigation of Nanowire Transistor X-ray Detector. *Materials*, 16(7), p.2637.
- 7- **A. Ellakany**, A. Zekry, M. Abouelatta, A. Shaker and M. ElBanna, "Performance Evaluation of X-Ray Nanowire Photoconductor Detector," *2023 40th National Radio Science Conference (NRSC)*, Giza, Egypt, 2023, pp. 253-263, doi: 10.1109/NRSC58893.2023.10152969.

CONFERENCES AND SEMINARS

Conferences

2016 28th International Conference on Microelectronics (ICM)

2023 40th National Radio Science Conference (NRSC),

Seminars

PROJECTS

Projects

.Implement the X-ray Imaging System

ORGANISATIONAL SKILLS

Organisational skills

- leadership
- Manger

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Good communication skills gained through with multinational company and foreigner expert

JOB-RELATED SKILLS

Job-related skills

- Designing the PCB Board (Atlium.....etc)
- Modeling electronics devices by many programs (SILVACOetc)
- Detect faults in electronics circuit
- Modeling electronics circuit by many simulators(Cadence , Altiumetc)

CITATIONS

Citations