

CURRICULUM VITAE

First Name : Emad Badry Mohamed
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First language: Arabic.

Current Job : -Lecturer at faculty of engineering, Suez Canal University

Education

1- PhD

Year: **2021**, in Electronics and Communication Engineering, Egypt-Japan University of Science and Technology (E-JUST), Alexandria.

2- MSc

Year: **2018**, in Electronics and Communication Engineering, Egypt-Japan University of Science and Technology (E-JUST), Alexandria.

3- BSc

Year: **2010**, in Electronics and Communication Engineering (Very good with honors), Electrical Engineering department, Suez Canal University (SCU), Ismailia.

Jobs

1-From October-2010 to March 2013, officer in the air defense, Egyptian Armed Forces.

2-From April-2013 to October 2018, demonstrator at Electrical Engineering department, Faculty of Engineering, Suez Canal University.

3-From October-2018 to July 2021, Assistant lecturer at Electrical Engineering department, Faculty of Engineering, Suez Canal University.

4-From July-2021 until now, Lecturer at Electrical Engineering department, Faculty of Engineering, Suez Canal University.

5-From September-2015 to March 2018, MSc student at Egypt-Japan University of Science and Technology (E-JUST), scholarship funded by Minister of Higher Education (MoHe).

6-From March-2018 to March 2021, PhD student at Egypt-Japan University of Science and Technology (E-JUST), scholarship funded by Minister of Higher Education (MoHe).

7-From December-2019 to July 2020, Special Research Student at Kyushu University, Japan, scholarship funded by Minister of Higher Education (MoHe).

Professional Courses

Year	Course Description	Field	Place , Authority
2001	Computer maintenance	Computer	ATSIT school
2008	PLC Level1	Control	Jelecom company
2008	Training (3 weeks)	Communication	Egypt telecom company
2009	GSM & GPRS	Communication	Jelecom company

2013	ICDL V5	Computer	ECDL foudation
2013	Local TOEFL	English	Suez Canal University
2014	Presentation 2010	computer	ICTP
2014	Using computer and managing files	computer	ICTP
2014	Scientific research tools(introduction to matlab)	computer	ICTP
2018	IELTS (score 6.5)	English	British Council

Computer skills

- 1- ICDL V5.
- 2- Windows application.
- 3- Computer maintenance.
- 4- Computer networks.
- 6-Matlab
- 5- C/C++

Educational skills

- 1-Analog and Digital Electronics.
 - 2-Having Experience with Microcontroller based circuits design (Arduino-STM32).
 - 3-Having experiences with Electronic simulation software (Multisim-PSPICE ORCAD-Proteus-Mikroc-LTSPICE- Mentor Modelsim)
 - 4- FPGA/ASIC circuits design (Xilinx tools-Cadence tools).
 - 5- HDL Verilog.
 - 6- PCB design using Altium designer.
 - 7- LabView programming.
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Research Interests

Digital circuits design (FPGA/ASIC)- Video Compression- Machine learning- Electronics.

List of Publications

International Conferences

- 1- E. Badry, A. Shalaby and M. S. Sayed, "Fast fractional-pixel motion estimation using Lagrangian-based error surface interpolation," 2017 IEEE Global Conference on Signal and Information Processing (GlobalSIP), 2017, pp. 151-155.
- 2- E. Badry, A. Shalaby and M. S. Sayed, "A hardware friendly fractional-pixel motion estimation algorithm based on adaptive weighted model," 2017 29th International Conference on Microelectronics (ICM), 2017, pp. 1-4.
- 3- E. M. Ibrahim, E. Badry, A. M. Abdelsalam, I. L. Abdalla, M. Sayed and H. Shalaby, "Neural Networks Based Fractional Pixel Motion Estimation for HEVC," 2018 IEEE International Symposium on Multimedia (ISM), 2018, pp. 110-113.
- 4- E. Badry, A. Shalaby and M. S. Sayed, "Fast Algorithm with Palette Mode Skipping and Splitting Early Termination for HEVC Screen Content Coding," 2019 IEEE 62nd International Midwest Symposium on Circuits and Systems (MWSCAS), 2019, pp. 606-609.
- 5- E. Badry, A. Shalaby and M. S. Sayed, "Intra Mode Decision Acceleration for HEVC Screen Content Coding," 2019 7th International Japan-Africa Conference on Electronics, Communications, and Computations, (JAC-ECC), 2019, pp. 92-95.
- 6- E. Badry, M. Abdelrasoul and M. S. Sayed, "Toward Faster HEVC for Video Conference Applications," 2019 7th International Japan-Africa Conference on Electronics, Communications, and Computations, (JAC-ECC), 2019, pp. 84-87.

International Journals

1- E. Badry, K. Inoue and M. S. Sayed, "Decision Tree Models and Early Splitting Termination in Screen Content Extension of High Efficiency Video Coding," in IEEE Access, vol. 8, pp. 143437-143452, 2020.

2- E. Badry, K. Inoue and M. S. Sayed, " Fast Screen Content Coding in HEVC using Machine Learning," in IEEE Access, vol. 9, pp. 154659-154666, 2021.

Thank you,