



## Ahmed Soliman Ali Mubarak (C.V)

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### PERSONAL DETAILS

<b>Name</b>	Ahmed Soliman Ali Mubarak.		
<b>Occupation</b>	Assistant Lecturer at Electrical Eng. Dept., Faculty of Engineering, Sohag University, Sohag, Egypt.		
<b>Nationality</b>	Egyptian.		
<b>Birth Date</b>	02-05-1978.		
<b>Address</b>	Electrical Eng. Dept., Faculty of Engineering, Sohag University, Sohag, Egypt.		
<b>Telephone Numbers</b>	(+2) 01144764777	<b>Email</b>	<a href="mailto:ahmed.soliman@aswu.edu.eg">ahmed.soliman@aswu.edu.eg</a> <a href="mailto:a.mubark2010@gmail.com">a.mubark2010@gmail.com</a>

### QUALIFICATIONS

<b>Degree</b>	<b>School/ Collage</b>	<b>Period</b>
<b>Ph.D.</b>	Faculty of Engineering, South Valley University	Mar. 2014 – Expected Dec.2018
<b>M.Sc.</b>	Faculty of Engineering, Assuit University, Assuit, Egypt.	Oct. 2007 – Apr. 2013.
<b>Diploma, Business Administration and Management</b>	Faculty of commerce, Ain Shams University, Cairo, Egypt	Oct. 2011– June 2013.
<b>B.Sc.</b>	Faculty of Engineering, South Valley University, Aswan, Egypt.	Oct. 1996 – June 2001.

### EDUCATION

<b>Degree</b>	<b>Field of study</b>
<b>M.Sc.</b>	Thesis title “New Method for Image Transmission Through Wireless Communication Channels Using Unequal Error Protection”.
<b>B.Sc.</b>	Electronics and Communication Section, graduation project title “VGA card design with analog interface”.
<b>Diploma (BA)</b>	Business Administration and Management, General.

### WORK EXPERIENCES

<b>Position</b>	<b>Place</b>	<b>Period</b>
<b>Assistant Lecturer</b>	Sohag Faculty of Engineering, Sohag University, Egypt.	Oct. 2014 – till present.
<b>Research Assistant</b>	Aswan Wireless Communications Research Center, Faculty of Engineering, Aswan University.	January 2015– till present
<b>Transmission Engineer</b>	Telecom Egypt, Aswan, Egypt.	Aug. 2006 – Sept. 2014.

<b>Expert Engineering</b>	Ministry of Justice, Aswan, Egypt.	Feb. 2005 – August 2006.
<b>Transmission Site Engineer</b>	TV & Radio Union, Aswan, Egypt .	Sept. 2003 – Feb. 2005.

#### TECHING INTERESTS AND SUPERVISING EXPERIENCES

- I assisted in teaching and teaching the following under-graduate courses at Sohag University, Sohag Faculty of Engineering:
  - Digital Signal Processing (DSP).
  - Fiber optics.
  - Digital Communication.
  - Acoustics.
  - Analog Communication.
  - Mobile Communication.
  - Electrical Circuits.
  - Satellite Communication.
  - Signal and System
  - Electrical Tests.
  - Information Theory and Coding

#### FIELDS OF INTEREST

- Wireless Communications.
- Digital Signal Processing for Communication.
- Millimeter Wave Technology.
- Heterogenous Cellular Networks.
- MIMO Based Telecommunication Systems.
- Li-Fi Data Transmission.

#### PRACTICAL FIELD COURCES

- SDH/DWDM Basic Principles and Operations.
- Fiber Optics course.
- Data networks courses.
- Project Management Qualifications.

#### LEADERSHIP AND SOFT SKILLS COURCES

- Strategic Planning.
- Time Management Skills.
- Coaching Skills Performance Appraisal.
- Teamwork and Communication Skills.

#### HONERS AND AWARDS

- The top graduates award, 2003: Ministry of State for Administrative Development, Egypt.
- WaferCatalyst Award, 2013: "Progressive Image Transmission over OFDM with Rate and Power Allocation" was selected as one of the top papers in the 2nd Saudi International Electronics, Communications and Photonics Conference (SIECPC).

## RESEARCH PROJECTS

Tilte	Place	Job	Period
LTE/WiFi/WiGig Internetworking for Future 5G Cellular Networks	Aswan University, Egypt.	Member	Oct. 2016- till now
A Power Efficient MIMO Based Telecommunication System for the 4th Generation Mobile Communications and Wireless Backhaul Applications.	Aswan University, Egypt.	Member	June 2015- Aug. 2017

## PUBLICATIONS

1. **Mubarak, Ahmed SA**, Ehab Mahmoud Mohamed, and Hamada Esmail. "Tightly coupled LTE/Wi-Fi/mmWave HetNet using 2C/U plane splitting for 5G networks." IEEE Wireless Communications and Networking Conference (WCNC), 2018.
2. **Mubarak, Ahmed SA**, Ehab Mahmoud Mohamed, and Hamada Esmail. "LTE/Wi-Fi/mmWave RAN-Level Interworking Using 2C/U Plane Splitting for Future 5G Networks." IEEE Access, 2018 (submitted).
3. **Ahmed S. Mubarak**, Ehab Mahmoud Mohamed, Hamada Esmail "New CAPWAP Architectures for IEEE 802.11ad Based Wi-Fi/WiGig WLANs" in Proc. of IEEE ITCE, 2018.
4. Ahmed Abdelreheem, Ahmed M. Nor, **Ahmed S. A. Mubarak**, Hamada Esmail and Ehab Mahmoud Mohamed "Comparative Study on Millimeter Wave Location-Based Beamforming" in Proc. of IEEE ITCE, 2018.
5. **Mubarak, Ahmed SA**, Ehab Mahmoud Mohamed, and Hamada Esmail. "Millimeter wave beamforming training, discovery and association using WiFi positioning in outdoor urban environment." Microelectronics (ICM), 2016 28th International Conference on. IEEE, 2016.
6. **Mubarak, A. S.**, Amrallah, A., Hussein, H. S., & Mohamed, E. M. "Low Density Parity Check (LDPC) Coded MIMO-Constant Envelop Modulation System with IF sampled 1-bit ADC," in IEEE JCE-ECC, May 2016.
7. Usama S. Mohammed, O. A. Omer and **Ahmed S. A. Mubarak**, "Progressive Image Transmission over OFDM with Minimum PAPR," in 2nd Saudi International Conference on Electronics, Communications and Photonics, April 2013. (**WaferCatalyst Award**)
8. Usama S. Mohammed, O. A. Omer and **Ahmed S. A. Mubarak**, "progressive image transmission over OFDM system," Assiut Engineering Journal, January 2013.
9. Usama S. Mohammed, O. A. Omer and **Ahmed S. A. Mubarak**, "Progressive Image Transmission over OFDM System with Minimum Peak-to-Average Power Ratio (PAPR)," in 30th National Radio Science Conference (NRSC) April 16-18, 2013.
10. Usama S. Mohammed, O. A. Omer and **Ahmed S. A. Mubarak**, "Source-Channel Rate Allocation Scheme for Robust progressive Image Transmission Using LDPC," in proceeding of 29th National Radio Science Conference (NRSC) April 10-12, 2012.

All my publications are listed on my google scholar citation home page  
<https://scholar.google.com.eg/citations?user=kDmeB7EAAA&hl=en>

## REFERENCES

1. Ass. Professor Osama Omer, Arab Academy for Science, Technology & Maritime Transport, Aswan, Egypt.  
([omer.osama@gmail.com](mailto:omer.osama@gmail.com))
2. Ass. Professor Ehab Mahmoud Mohamed, Aswan University, Egypt  
([ehab\\_mahmoud@aswu.edu.eg](mailto:ehab_mahmoud@aswu.edu.eg))
3. Ass. Professor Hamada Esmail, Aswan University, Egypt  
([h.esmaiel@aswu.edu.eg](mailto:h.esmaiel@aswu.edu.eg))