

# Academic Curriculum Vitae



## Personal Information:

Full Name: Maha George Zia George  
Academic Title: Assistant Professor  
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Mobile: +9647502700933



## Education:

### **B.Sc. in Electrical Engineering ... July 1986.**

Electrical Engineering Department, College of Engineering, Baghdad University- Baghdad- Iraq

### **M.Sc. in Electrical Engineering (Electronics and Communications Engineering) ... April 1992.**

Electrical Engineering Department, College of Engineering, Baghdad University- Baghdad - Iraq

## Employment:

1987-1992: An Engineer in the Electrical Engineering Department, College of Engineering, Al-Mustansirya University-Baghdad.

1992-1995: Assistant Lecturer in the Electrical Engineering Department, College of Engineering, Al-Mustansirya University- Baghdad.

1995-2001: A Lecturer in the Electrical Engineering Department, College of Engineering, Al-Mustansirya University- Baghdad.

2001-16/2/2011: Assistant Professor in the Electrical Engineering Department, College of Engineering, Al-Mustansirya University- Baghdad.

17/2/2011- 12/11/2016: Assistant Professor in the Software Engineering Department, College of Engineering, Salahaddin University-Erbil.

13/11/2016-until now: Assistant Professor in the Electrical Engineering Department, College of Engineering, Salahaddin University-Erbil.

## Qualifications

- Teaching qualifications: Teaching and supervision of undergraduate and postgraduate students since 1992.
- IT qualifications: computer programming such as C++, Fortran, visual basic, and simulation programs such as MATLAB within the field of communications engineering.
- Language qualifications such as TOEFL.
- Any professional qualification: Master of science in engineering that involve both teaching, supervision, and research.
- Online courses in communications engineering using MATLAB program.

## Teaching experience:

- Teaching courses for undergraduate students:
  1. Digital Signal Processing.
  2. Probability and statistics
  3. Engineering analysis.
  4. Mathematics.
  5. Communications and error control coding.
  6. Digital system design.
  7. Analog electronics.
- Teaching courses for postgraduate students:  
Advanced digital signal processing
- Lab supervision for undergraduate students:
  1. Digital system design lab.
  2. Digital Signal Processing Lab.

## Research and publications

1. Maha George Zia, "DC Solutions of Nonlinear Circuits," *AL-Muhandis*, Vol. 124, No.4, pp. 17-25, Dec. 1995.

2. Thikwan M. Saleem, Maha G. zia, and Laith M. Al-Rawi, "**Digital Frequency Comparator**," *AL-Muhandis*, Vol. 126, No. 2, pp. 12-17, June 1996.
3. Maha George Zia, "**Design of Multipurpose Frequency Measuring Device**," *Journal of Engineering and Development*, Vol.3, No.1, pp. 39-45, Jan. 1999.
4. Maha George Zia, "**Realization of Quaternary Reed-Muller Switching Functions**," *Journal of Engineering and Development*, Vol.4, No.3, pp. 54-64, Nov. 2000.
5. Maha George Zia, "**Quaternary Reed-Muller Switching Functions with fixed polarity**," *Journal of Engineering and Development*, Vol.5, No.1, pp. 110- 122, April. 2001.
6. Maha George Zia, "**Encoding and Error Correction Procedure for Reed-Solomon Codes**," *Journal of Engineering and Development*, Vol.6, No.1, pp. 37- 48, March. 2002.
7. Maha George Zia, "**Forward Error Correction using Reed-Solomon / Convolutional Concatenated Codes**," *Journal of Engineering and Development*, Vol.7, No.2, pp. 51-65, Oct. 2002.
8. Maha George Zia, and Samir Abd Al-Cathem, "**Serial Concatenated codes Based on Iterative and Non-Iterative Decoding**," *Journal of Engineering and Development*, Vol.10, No.1, pp. 48-65, March 2006.
9. Maher K. Al-Azawi, Maha George Zia, and Amal M. Noori, "**Fast and Multicarrier Frequency Hopping Signals over Frequency Selective Rayleigh Fading Channel**," *Journal of Engineering and Development*, Vol.10, No.3, pp.47-59, Sept. 2006.
10. Maha George Zia, "**Iterative Decoding of Serial Concatenated Convolutionally Encoded Signals Over Frequency Selective Fading Channel**," *Journal of Engineering and Development*, Vol.11, No.2, pp. 104-112, Sept. 2007.
11. Maha George Zia, and Khaleel Abdul Khader, "**Comparison between Modified BCJR and SOVA Decoders over AWGN Channel**," *Journal of Engineering and Development*, Vol.11, No.3, pp.61-75, Dec. 2007.
12. Maha George Zia, and Harith A. Nassir, "**Multiuser Detection for Group Orthogonal Multicarrier Code Division multiple Access System in Frequency Selective Rayleigh Fading Channel**," *Journal of Engineering and Development*, Vol.12, No.4, pp.148-158, Dec. 2008.
13. Maha George Zia, "**Channel Estimation using Adaptive Filtering in OFDM System**," *IASTED international conference on Signal and Image Processing (SIP 2009)*, pp.25-27, Honolulu, Hawaii, USA, 17-19 August 2009.
14. Maha George Zia, "**Frequency Domain Equalization Techniques Applied To Group Orthogonal Multi-Carrier Code Division Multiple Access**," *4<sup>th</sup> WSEAS International conference on Circuits, Systems, and Telecommunications (CISST'10)*, pp. 35- 38, University of Harvard, Cambridge, USA, Jan 27-29 2010.

15. Maha George Zia and Sameer Akram Dawood, "**Frequency Domain Equalization Techniques for Multi-Code DS-CDMA in Frequency Selective Rayleigh Fading Channel,**" *Hendasa Journal*, College of Engineering, Baghdad University, Vol. 16, no. 3, pp.5363-5376, Sept. 2010.
16. Maha George Zia and Fadia Noori, "**Performance of Channel Estimation for OFDM System Based on Block-Type Pilot Arrangement in Rayleigh Fading Channel,**" *Communications and Computer Conference*, College of Engineering, Al\_Mustansirya University, Dec. 6-7, 2010.
17. Maha George Zia, "**Performance of MC-CDMA / TDM using Superimposed Pilot Channel Estimation,**" *IASTED international conference on Signal and Image Processing (SIP 2011)*, pp.156-160, Dallas, USA, 14-16 Dec. 2011.
18. Maha George Zia, "**Performance of Chaos-Based MC-CDMA in Frequency Selective Fading Channel,**" *International Journal of Scientific & Engineering Research*, Volume 4, Issue 1, pp.1 – 4, January-2013.
19. Maha George Zia, "**Low Complexity Channel Estimation for MC-CDMA System Based Chaos under Fast Multipath Channel,**" *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)* Volume 9, Issue 1, Ver. V (Feb. 2014), PP 28-35.
20. Maha George Zia, "**New SC-FDMA scheme based spatial multiplexing with cyclic delay diversity for uplink LTE,**" *International Journal of Modern Communication Technologies & Research (IJMCTR)*, Volume-3, Issue-9, September 2015.
21. Maha George Zia, "**Adaptive Frequency Domain Equalizer for MIMO SC-FDMA System**" *Second international conference of Engineering and Innovating Technology (SU-ICEIT 2019)*, pp.1-6, Erbil, Iraq, April 14-16, 2019.
22. Maha George Zia, "**Adaptive Frequency Domain Affine Projection Equalizer of MIMO SC-FDMA System,**" *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)* Volume 17, Issue 5, Ser.II (Sep.-Oct. 2022), PP 28-35.

## Conferences and courses attended

- IASTED international conference on Signal and Image Processing (SIP 2009), Honolulu, Hawaii, USA, 17-19 August 2009.
- 4<sup>th</sup> WSEAS International conference on Circuits, Systems, and Telecommunications (CISST'10), University of Harvard, Cambridge, USA, Jan 27-29, 2010.
- IASTED international conference on Signal and Image Processing (SIP 2011), Dallas, USA, 14-16 Dec. 2011.

## Professional memberships

- IEEE senior member since 2014.
- IEEE member since 2007.
- Other activities like:
  1. Reviewer for International Conference on Information Science and Application (ICISA 2011), April 27-29, 2011, Jeju Island, Korea, <http://global.kcis.kr/icisa2011>
  2. Reviewer for International Conference on IT convergence and security (ICITCS 2011), Dec. 14-16, 2011, Suwon, Korea, <http://conf.kcis.kr/main/main.asp>
  3. Reviewer for WSEAS Journals and conferences, since 2013, [www.wseas.org](http://www.wseas.org)
  4. Reviewer for 2013 Asia Conference on Future Trends in Computing and Communication (ACFTCC 2013), Oct 22-24, 2013, Shanghai, China, <http://ieit-pub.org/ACFTCC2013>
  5. Reviewer for Zanko Journal – Salahaddin University, since 2016.

## Professional Social Network Accounts:

- ResearchGate: <https://www.researchgate.net/profile/Maha-George-2>
- LinkedIn: <https://www.linkedin.com/in/maha-george-65a4b658/>
- Google Scholar:  
[https://scholar.google.com/citations?hl=en&user=k9tzARQAAAAJ&view\\_op=list\\_works&gmla=AJsN-F75wEKYF2WuosFdEimb36LWKCF0helsaYwP7DPJNb2iEUrFc\\_5Q1QPLqEVn7fyPbDEQnf\\_b3qNEFdD51uOpEMr5qx3aluD3f3sfx08cCsoOxBpgk5a0](https://scholar.google.com/citations?hl=en&user=k9tzARQAAAAJ&view_op=list_works&gmla=AJsN-F75wEKYF2WuosFdEimb36LWKCF0helsaYwP7DPJNb2iEUrFc_5Q1QPLqEVn7fyPbDEQnf_b3qNEFdD51uOpEMr5qx3aluD3f3sfx08cCsoOxBpgk5a0)
- Facebook: <https://www.facebook.com/maha.george>