

NAME: NASER FARHAN ABDULLAH AL-FALAHY

Gender: male.

Nationality: Iraqi

Date of birth: 31/ Jan. / 1981

Place of birth: Iraq - Anbar



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ACADEMIC QUALIFICATION**2018 - PhD in Communication Engineering**

- University of Salford – Manchester/UK.
- Dissertation title " Improvement of 5G Performance Through Network Densification in Millimetre Wave Band "

2005 - M.Sc. in Communication Engineering

- Al-Nahrain University – Baghdad/Iraq
- Average score: 78.3 %
- Rank: The first out of 5 graduates.
- Dissertation title "Design and Simulation of a coherent GPS receiver"
- Main Study Subjects: Communication Systems, digital communication, Coherent Communication, digital signal processing, remote sensing, Control System, Satellite Communication and space-craft Engineering.
- Language of Study: English

2001 - B.Sc. in Electronic & Communication Engineering

- Al-Nahrain University – Baghdad/Iraq
- Average score: 69.7%

1998 - Baccalaureate / Scientific Branch

- The Central High School – Anbar/Iraq
- Average score: 88%

ACADIMIC EXPERIENCE

- 2002 – 2004 | Lecturer
Anbar Technical Institute - Anbar/ Iraq

PRACTICAL EXPERIENCE

- December 2004 – October 2010 | Instructor
ZAIN-GSM NETWORK - Iraq-BAGHDAD

I worked as an optimization senior engineer in optimization field for 5 years with Motorola equipment for providing mobile network service over Iraq region. Our main duty was to plan and optimize the network performance to provide the optimum quality. As well as troubleshooting any hardware problem or parameter conflict that impact our network.

Some successful targets met within my work period:

- Deploying the Half Rate property to increase the network capacity.
- Providing coverage to far and huge areas extended to most of the country.
- Deploying GPRS service within the network.
- Expanding the network capacity by deploying DCS layer.

CURRENT POSITION

- October 2010 – now - Instructor
University of Anbar - Iraq-Anbar

TRAINING COURSES WORLDWIDE

I took some courses under the supervision of Motorola Inc:

- SYS02 – BSS database – Lebanon 2008.
- SYS03 – Advanced BSS database - United Kingdom 2006.
- BSS – Base Station Systems workshop –Lebanon 2008.
- GSM Workshop – Kuwait 2009.
- AMR/EDGE Workshop – Lebanon 2010.

SELECTED PUBLISHED PAPERS

- Al-Falahy, N. & Alani, O. Technologies for 5G Networks: Challenges and Opportunities. *IEEE IT Prof.* 19, 12–20 (2017).
- Al-falahy, N. & Alani, O. Network capacity optimisation in millimetre wave band using fractional frequency reuse. *IEEE Access* (2018).
- Al-falahy, N. & Alani, O. Y. K. Millimetre Wave Frequency Band as a Candidate Spectrum for 5G Network Architecture : A Survey. *Elsevier Phys. Commun.* 32, 120–244 (2019).
- Al-falahy, N. & Alani, O. Y. K. Coverage and Capacity Improvement of Millimetre Wave 5G Networks Using Remote Radio Heads. *IET Networks* 1–17 (2019).

RESEARCH INTEREST

My research interest includes:

- 4G and 5G networks.
- Wireless communications and networks.
- Millimeter wave communications.