MURTADHA MUAYAD NAEEM
ALDEER

PHD IN ELECTRICAL & COMPUTER ENGINEERING

Basrah, Iraq

📱 (+964) 78-4441-3339 ‖ (+1) 732-310-7521 | ✉ murtadha.aldeer@gmail.com | maldeer@winlab.rutgers.edu | 🏠 maldeer.github.io | in maldeer | 🎓

Murtadha Aldeer

Summary

Experienced Ph.D. Professional in IoT, AI, and Computer Systems with a doctorate in Electrical & Computer Engineering from Rutgers University, USA. Former Associate Research Scientist at Columbia University, NYC, with a strong track record in both industry and academia. Skilled in project management, research innovation, and technical leadership, driving advancements in Computer Systems and IoT solutions.

Education

Rutgers The State University of New Jersey *New Brunswick, NJ, USA*
PH.D. IN ELECTRICAL & COMPUTER ENGINEERING *2015–2023*
- Dissertation: *Intelligent Monitoring of Human Activity in Cyber-Physical-Human Systems – From Smart Medication Bottles to Occupant Activity Detection in Buildings*

University of Portsmouth *Portsmouth, UK*
M.SC. IN COMMUNICATION NETWORK PLANNING & MANAGEMENT *2007–2008*
- Dissertation: *Multiplexing/Concentrating Bursty Traffic Data*

University of Basrah *Basrah, Iraq*
B.SC. IN COMPUTER ENGINEERING *2000–2004*
- Graduation Project: *ATX Power Supplies – Principles, Practices, and Maintenance*

Work Experience

Laser Technologies Department, University of Shatt Al-Arab *Basrah (Hybrid), Iraq*
LECTURER (EQUIVALENT TO ASSISTANT PROFESSOR IN THE AMERICAN ACADEMIC SYSTEM) *Sep. 2024-May 2025*
- ATU15022–Digital Fundamentals & Logics (undergraduate course + lab), [Spring'25].
- ATU15012–Electric Circuit (undergraduate course + lab), [Fall'24].

Ministry of Communications, Informatics & Telecoms Public Co, Al-Faw Submarine Cable Landing Station *(Contract) Basrah, Iraq*
CHIEF ENGINEER *Jun. 2024–current date*
- System monitoring, hardware checking, hardware replacement, software upgrades, and site surveys.

NSF Engineering Research Center for Smart Streetscapes (CS3), Columbia University *New York City, NY, USA*
ASSOCIATE RESEARCH SCIENTIST *Feb. 2024–May 2024*
- Responsible for integration of technologies and research products to build applications.
- Recommending technologies to support projects.
- Collaboration with an interdisciplinary team including engineers, social scientists, and urban planners.
- Leading-edge research in smart city technology and applications.
- Executing software engineering tasks.
- Developing and managing detailed project schedules and work plans.

School of Computing, Montclair State University *Montclair, NJ, USA*
ASSISTANT TEACHING PROFESSOR *Oct. 2023–Jan. 2024*
- Teaching CSIT540–Computer Networks and CSIT340–Computer Networks, [Fall'23].

Computer Science Department, Montclair State University *Montclair, NJ, USA*
INSTRUCTOR *Jul. 2022–Sep. 2023*
- Teaching CSIT340–Computer Networks, [Summer'23], CSIT230–Computer Systems, [Spring'23 and Fall'22], CSIT104–Python Programming I, [Spring'23], CSIT432–Systems Administration, [Spring'23], CSIT502–Computer Systems Principle, [Fall'22], and CSIT100–Introduction to Computer Concepts, [Summer'22].

RizLab Health Inc. *Princeton, NJ, USA*
HARDWARE DEVELOPMENT ENGINEER INTERN *May.–Jul. 2022*
- Developing hardware, software, and firmware for CytoTracker; a rapid blood testing diagnostics device.

ECE Department & CS Department, Rutgers The State University of New Jersey

New Brunswick, NJ, USA

TEACHING ASSISTANT

Jan. 2020–May. 2022

- TAing PM1–Programming Methodology 1 (undergraduate), [Spring'20, Spring'21, and Spring'22 (Head TA)], PEE1–Principles of Electrical Engineering 1, [Fall'20 and Fall'21], and CS352–Internet Technology, [Summer'20 and Summer'22].

CS Department, Rutgers The State University of New Jersey

New Brunswick, NJ, USA

SUMMER INSTRUCTOR

2018, 2019 & 2021

- CS352–Internet Technology, [Summer'18, Summer'19, Summer'21, and Summer'24].

TaQQaat Al-Burjisya LLC

Basrah (Hybrid), Iraq

EXTERNAL AFFAIRS & DOCUMENTATION LEAD

Sep. 2012–Jun. 2018

- Leading all meetings, agreements, and discussions with clients.
- Preparing Time Schedules, Method Statements, HSE, Risk Assessments, and Confined Spaces documentation for civil works, oil and gas tanks, pipe-lining, sandblasting, coating and painting, and cathodic protection system installation.
- Conducting site surveys.

Ministry of Communications, Informatics & Telecoms Public Co.

Basrah, Iraq

SENIOR COMMUNICATION NETWORKS ENGINEER

Jul. 2010–Jan. 2015

- Managing Wi-Fi networks, installing point-to-point links, monitoring network usage, and planning and implementing future IT developments, as well as undertaking project work.

KOREK Telecom

Basrah, Iraq

NSS TEAM LEADER

Mar.–Jul. 2010

- Leading all Network Switching Subsystem activities in Basrah; including: network monitoring, E1 connectivity, expansions, hardware checking, hardware replacement, software upgrades, and site surveys.

MEC–Telematik Telecommunication Consultancy, NSN Project-Iraq

South Region, Iraq

SENIOR TECHNICAL SUPPORT ENGINEER

Mar. 2009–Mar. 2010

- Working on NSN DX200 MSC/VLR, MSS, GCS, MGW, GMGW, HLR, IN, E1 connectivity, expansions, hardware checking, hardware replacement, software upgrades, and site surveys.

ZAIN Iraq

South Region, Iraq

NSS ENGINEER

Sep. 2004–Oct. 2007

- Managed NOKIA DX200 MSC/VLR, CMSC, MSS, HLR, and IPA2800 MGW platforms. Responsibilities included daily monitoring, troubleshooting TDM/ATM connections, overseeing expansions, hardware checks, configuring systems, and installing GPS units

Publications

For a complete list of my publications, visit: `https://shorturl.at/Zve5o`

Trainings & Courses

- Jan 2015–Aug 2015. PROGRAM IN AMERICAN LANGUAGE STUDIES (PALS), given by Rutgers The State University of New Jersey, Piscataway, NJ-USA, certificate obtained.

- Oct 2011–Nov 2011. EXECUTIVE PROGRAM IN MANAGEMENT (specialization: E-GOVERNMENT), given by Maastricht School of Management, Maastricht-The Netherlands, certificate obtained.

- Dec 2010. SIX WEB-BASED TRAININGS ON MOBILE NETWORK CORE COMPONENTS, given by Nokia Siemens Networks, diploma certificate obtained.

- Mar 2007. TRAINING COURSE IN SYNC PRINCIPLES OSA 5581C GPS-SR AND SYNCVIEW, given by Oscilloquartz, Kuwait-State of Kuwait, certificate obtained.

- Dec 2004. TRAINING COURSE IN 2G SYSTEM TRAINING, given by NOKIA, Kuwait-State of Kuwait, recognition of participation obtained.

- Dec 2004. TRAINING COURSE IN SWITCHING PLATFORM ESSENTIALS, given by NOKIA, Kuwait-State of Kuwait, recognition of participation obtained.

References

- ***Richard Martin.*** Associate Professor, CS/WINLAB, Rutgers University, New Brunswick, NJ, USA
  rmatin@scarletmail.rutgers.edu

- ***Ahmed Albidani*** Director of Telecommunications of Basrah, Ministry of Communications, Basrah, Iraq
  eng.albaidhani@gmail.com

- ***Fredric Wohl.*** CEO, MEC Telematik FZ LLC, Dubai, UAE
  fred.wohl@mecgulf.com