Najib Ahmed, PhD
Email: najibgafar@gmail.com | Phone: +44 7393415546| Location: London, UK
🔗 Google scholar board

Personal Profile

Experienced and accomplished researcher in wireless communication systems with a PhD in Computer Science and a strong focus on Machine-Type Communication (MTC), Unmanned Aerial Vehicles (UAVs), 5G, and edge computing. Proven track record of publishing in high-impact journals, developing novel algorithms and protocols, and leading multidisciplinary research projects from conception through to implementation. Adept in simulation, coding, academic supervision, and collaborative research.

Core Competencies

- Mission-Critical MTC & Wireless Networks
- 5G and Beyond Communication Systems
- Channel & PHY layer coding
- MATLAB, Python, C++, PHP, Assembly
- Simulation & Algorithm Development
- Research Design & Execution
- Academic Writing & Peer-reviewed Publishing
- Technical Supervision & Higher Education Teaching
- Patent & Innovation Development
- Academic platforms developments
- Building Automations

Education

Diploma in Electrical Installation and Building Automation
Waltham Forest College, UK | 2024 - 2026

- Gaining practical and theoretical knowledge of electrical installation in the UK
- Studying and applying BS 7671 Wiring Regulations
- Adhering to health and safety standards in electrical environments

PhD in Computer Science
University of Malaya, Malaysia | 2016 - 2022

- Major: Wireless networks (Machine-Type Communication)
- Thesis: *An Efficient Channel Coding and Short Preamble Design for High-Performance Machine-Type Communication over Wireless Networks*
- Publications in *IEEE Access* and *Computers, Materials & Continua*
- Supervisors: Dr. Ali Mansoor, Dr. Rodina Ahmad

Master of Computer Science (Hons)
University Putra Malaysia, Malaysia | 2013 - 2015

- CGPA: 3.96/4 (with honours)
- Specialisation: Computer networks
- Achieved a patent in wireless network design
- Supervisor: Prof. Dr. Mohamed Othman

Bachelor of Computer Science (Hons)
Taiz University, Yemen | 2003 - 2007

- Grade: 86.75% (with honours)
- Graduation Project: *Telecommunication Cabinet Database Management System*

Research & Professional Experience

Academic Platform Engineer (Volunteer)
International Scientific Research & Education Network (ISREN), Malaysia | 2019 - 2026

- Lead the design and development of ISREN as a global academic platform.
- Initiate and manage research collaborations in AI and wireless networks.
- Facilitate international partnerships and researcher engagement.

British Cancer Research (Volunteer)
Horsham, UK | May 2023 – Oct 2023

- Assisted in fundraising and awareness campaigns for cancer research initiatives.
- Supported retail operations in charity shops, helping with sales and customer service.
- Helped organise community events and educational programs to spread awareness.
- Collaborated with a team to sort donations and maintain inventory.

Lecturer in Computer Science
UNITAR University, Malaysia, Kuala Lumpur | 2022 - 2023

- Delivered undergraduate modules in AI, Software Architecture, Big Data, and IS.
- Supervised postgraduate research projects.
- Enhanced student outcomes through innovative teaching methods.

Assistant Lecturer in Computer Science
IBB University & University of Science & Technology, IBB, Yemen | 2008 - 2013

- Lectured in subjects such as Automata Theory, OS, C++, VC++, and Assembly.
- Developed a foundational curriculum for Introduction to Computer Science.
- Supervised numerous final-year student projects.

Selected Publications

- **Multidisciplinary International Research Journal,** 2026: MC-Wi-Fi: A Low-Latency and Ultra-Reliable PHY Layer Architecture for Mission-Critical Machine-Type Communications
- **Future Generation Computer Systems**, 2024: *Load-Balanced Algorithm for Internet Gateway Placement*
- **Computers, Materials & Continua**, 2022: *Deployment of Polar Codes for MTC*
- **Universiti Malaya**, 2022: *Efficient Channel Coding & Short Preamble for MTC*
- **IEEE Access**, 2019: *Mission-Critical MTC: Overview & Perspectives Towards 5G*
- **US Patent Application 15/266,079**, 2017: *Internet Gateway Placement in BWMNs*

Awards and Honours

- Malaysia Patent Grant for Wireless Network Innovation
- Excellence in IT Team Management – CSDY Conference, Malaysia

- Social Fund for Development Award – Community Project, Yemen
- Workplace Success Award – Sana'a, 2008

Professional Memberships & Affiliations

- Editor-in-Chief, **London Academic Research Press, London, UK**
- Member, **Institute of Electrical and Electronics Engineers (IEEE)**
- Co-Founder, **ISREN Academic Platform**
- IT Consultant, **Ministry of Higher Education – Yemen**

References upon request