**1. Name:** Ahmed Khazal Younis

**2. Education**

- B.Sc in Computer Technology Engineering, University of Mosul, Iraq, 2002
- M.Sc in Computer Technology Engineering, University of Mosul, Iraq, 2008
    - Thesis: Smart Card Based BAM Data Security System
- Ph.D in Computer Engineering, Yasar University, Turkey, 2019
    - Thesis: FPGA Based Control and Reconfigurable Mechanism in Wireless Sensor Networks (WSN)

**3. Academic Experience**

- Assistant Professor, Department of Computer Engineering Techniques, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Responsible for Information Technology Division
- Teaching undergraduate and postgraduate courses in:
    - Embedded Systems
    - Microprocessor Architecture
    - Advanced Digital Electronics
- Previous academic positions include Lecturer and Assistant Lecturer in computer engineering disciplines
- Supervision of student projects in embedded systems, FPGA, and machine learning applications

**4. Non-Academic Experience**

- Technical trainer in neural networks and embedded systems applications
- Experience in applied engineering systems related to FPGA design and reconfigurable architectures
- Research involvement in machine learning and deep learning applications for engineering systems

**5. Certifications or Professional Registrations** :N/A

**6. Current Membership in Professional Organizations** :N/A

**7. Honors and Awards** :N/A

**8. Service Activities**

- Responsibility for Information Technology Division at the college
- Participation in academic committees and departmental coordination
- Contribution to curriculum development in embedded systems and computer engineering
- Involvement in examination preparation and academic evaluation processes
- Support for laboratory activities and student training programs

**9. Selected Publications and Presentations (Last 5 Years)**

- Bone Fracture Detection Using Hybrid EfficientNet-B0 and ResNet50 with SVM: A Comparative Performance Analysis (2025)
- FPGA based Fuzzy Edge Detection System for COVID-19 X-Ray Images (2025)
- Enhancing Face Emotion Recognition Based on Lite ResNet-50 for Embedded Systems (NTU Journal publication)
- Contributions in FPGA systems, embedded systems, machine learning, and deep learning applications
- Research fields:
    - Embedded Systems
    - FPGA and Reconfigurable Architectures
    - Machine Learning and Deep Learning
    - Neural Networks
    - Computer Vision Applications

**10. Recent Professional Development Activities**

- Continuous academic teaching in embedded systems and computer engineering
- Active participation in research projects in FPGA and AI-based systems
- Contribution to NTU scientific publications and journal research activities
- Engagement in workshops and academic development programs in machine learning and hardware systems