

**1. Name:**Ahmed Hashim Ahmed

**2. Education**

- B.Sc in Electrical Engineering (Power and Machines), University of Mosul, Iraq, 2011
- M.Sc in Electrical Engineering (Power and Machines), University of Mosul, Iraq, 2014
- IC3 Certification in Computing and Internet Core Skills
- TOEFL ITP Certificate

**3. Academic Experience**

- Lecturer / Faculty Member, Department of Computer Engineering Techniques, Technical Engineering College for Computer and Artificial Intelligence, Northern Technical University (NTU), Mosul, Iraq
- Teaching undergraduate courses related to:
  - Electrical Machines
  - Control Systems
  - Electrical Engineering Applications in Computing
- Previous academic and research experience in electrical engineering and machine fault diagnosis
- Participation in supervision of undergraduate projects in electrical and computer engineering fields

**4. Non-Academic Experience**

- Researcher in electrical machine diagnostics and signal analysis
- Participation in applied engineering projects related to electrical power systems and machine modeling

**5. Certifications or Professional Registrations**

- IC3 Digital Literacy Certification
- TOEFL ITP English Language Certification

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

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

**8. Service Activities**

- Contribution to teaching and academic duties within the department
- Participation in laboratory supervision and practical training activities
- Involvement in curriculum support for electrical and computer engineering subjects
- Contribution to academic assessment and examination processes

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

- Parametric analysis on the effect of V-type rotor magnet geometry on PMSMs (2025)
- Cogging torque mitigation for PMSM using stator slot design and magnet skewing (Conference work, IEEE)
- Modeling and Simulation of Salient Pole Synchronous Machine With Comparison Between Actual and d-q Models
- Mixed Air Gap Eccentricity Fault Diagnosis of a Salient Pole Synchronous Generator Based on Current Signature
- Total publications: multiple peer-reviewed papers and conference contributions
- Research fields:
  - Electrical Machines
  - Fault Diagnosis Systems
  - Intelligent Control
  - Smart Grid and Renewable Energy
  - Finite Element Method (FEM) Applications

## **10. Recent Professional Development Activities**

- Continuous involvement in teaching electrical and computer engineering subjects at NTU
- Participation in conferences and scientific workshops in electrical engineering and control systems
- Engagement in research activities related to intelligent fault detection and machine modeling
- Contribution to academic development and laboratory training programs