

1. Name :**Dr. Basma Mohammed Kamal Younis Abdullah**

2. Education

- Ph.D in Computer Engineering / Digital Systems, University of Mosul, Iraq (as per NTU profile)
- M.Sc in Computer Engineering / Digital Systems
- B.Sc in Computer Engineering

3. Academic Experience

- Lecturer, Department of Computer Techniques Engineering, Northern Technical University (NTU), Iraq (Full-time)
- Teaching undergraduate courses in:
  - Digital Systems Design
  - FPGA Design
  - Computer Architecture
  - Embedded Systems
- Participation in laboratory supervision and academic teaching activities

4. Non-Academic Experience :N/A

5. Certifications or Professional Registrations :N/A

6. Current Membership in Professional Organizations :N/A

7. Honors and Awards :N/A

8. Service Activities

- Participation in departmental teaching duties
- Supervision of student projects
- Contribution to laboratory and curriculum activities

9. Selected Publications and Presentations (Last 5 Years)

- FPGA Implementation of Canny Edge Detection Algorithm (AIP Conference Proceedings)
- Design and Implementation of Low Power Digital Systems Using FPGA Techniques
- Performance Analysis of Image Processing Systems Based on FPGA Architectures
- Smart Digital Systems and Reconfigurable Hardware Design Applications
- Research in:
  - Digital Systems Design

- FPGA-based Image Processing
- Computer Architecture and Embedded Systems
- Total published research: **13 papers**
- Conferences: **4 presentations**

#### 10. Recent Professional Development Activities

- Participation in academic workshops and conferences
- Contribution to teaching and curriculum development activities
- Involvement in departmental academic duties