

DR. MOHAMMAD ABDUL QAYUM [MAQM]

Assistant Professor

Post-doc, Ph.D. in Electrical Engineering (Computer Engineering), New Mexico State University, USA

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#### Biography

Mohammad Abdul Qayum is currently working as an Assistant Professor in the Electrical and Computer Engineering department of North South University, Dhaka, Bangladesh. He completed his B.Sc. degree in Electrical and Electronic Engineering (EEE) from BUET, Bangladesh. Soon after his graduation, he joined Eastern University of Bangladesh as a lecturer. He also worked in Banglalink, as Rollout Engineer. Later, he went for higher studies and obtained his MSc in Electrical Engineering (major-Computer Engineering) from Oklahoma State University, USA. He then obtained his Ph.D. in Electrical Engineering (major- Computer Engineering) from New Mexico State University, USA. During his M.Sc. and Ph.D., he worked as a Graduate Teaching Assistant and Research Assistant. His M.Sc. thesis was on Designing Multicore MIPS Simulator in SystemC and his Ph.D. work was on Transactional Memory for large scale graph applications. After completion of his Ph.D., he joined as a post-doctoral fellow in New Mexico State University where he worked on OS-friendly microarchitecture. Then he moved to Minnesota State University as Assistant Professor of Computer Engineering at Department of Electrical and Computer Engineering and Technology (ECET) where he taught Microprocessor Engineering II, Real-time Embedded Systems, Smart Sensors and Programmable Hardware Logic. Before joining North South University he worked as investor and

developer in a startup based on HIVE blockchain.

#### Research Areas

- Embedded Systems and Internet of Things (IoT)
- Artificial Intelligence & Robotics
- Cloud Computing and Distributed Systems
- Human Computer Interaction (HCI)

#### Research Interests

High Performance Computing, Internet of Things (IoT), Robotics, Blockchains

#### Teaching

- CSE 332 Computer Organization and Architecture
- CSE 331 Microprocessor Interfacing & Embedded System
- CSE 532 Advanced Computer Architecture
- CSE 445 Machine Learning
- CSE499B/EEE499B/ETE499B – Senior Design II
- CSE499A/EEE499A/ETE499A – Senior Design I

#### Research Projects & Grants

##### Projects:

Multidisciplinary Solutions to Urban Heat Island Phenomenon: Comfort tower, Eco-friendly Air Cooler, and Foldable SolarDrive Automobile

Robot Dexterity Intelligence: A Reinforcement Learning Framework for Dual Robotic Arms with Blockchain-Enabled AI Skill Marketplace

##### Grants:

ICT Innovation Fund

NSU CTRG 2023-2024