MD ASHIKUL HAQUE

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Education

PhD, Computer Science
May 2027 [Expected]
University of Texas at Dallas, USA
Thesis: **Resilient and Secure LPWAN Communication Under Jamming and Coexistence**
Advisor: **Prof. Abusayeed Saifullah**

MSc, Computer Science
2024
Wayne State University, USA

BSc, Computer Science & Engineering
2018
Bangladesh University of Engineering & Technology

Research Interests

Wireless Network Security
Machine Learning for Embedded Systems
Internet of Things

Conference Publication

Md Ashikul Haque, Venkata Modekurthy, Abusayeed Saifullah; "Enabling Cross Technology Communication from LR-FHSS to LoRa"; In ACM/IEEE **SenSys '26** (ACM/IEEE International Conference on Embedded Artificial Intelligence and Sensing Systems); CPS-IoT Week 2026; pp. 1 – 13; 2026.

Md Ashikul Haque, Abusayeed Saifullah; "Mitigating Jamming Attacks in LoRa Networks: A Defense Strategy Against LoRa-Based Jammers"; In IEEE **MobiHoc '25** (The International Conference on Mobile Computing and Networking); pp. 1–11. Acceptance rate: 23%.

Md Ashikul Haque, Abusayeed Saifullah, Haibo Zhang; "Deep Reinforcement Learning Based Coexistence Management in LPWAN"; In IEEE **INFOCOM '25** (The IEEE International Conference on Computer Communication); pp. 1–11; 2025. Acceptance rate: 18.6%.

Md Ashikul Haque, Abusayeed Saifullah; "Handling Jamming Attacks in LoRa Networks"; In ACM/IEEE **IoTDI '24** (The ACM/IEEE Conference on Internet-of-Things Design and Implementation); pp. 146–157; **CPS-IoT Week**; 2024.

Aakriti Jain, **Md Ashikul Haque**, Abusayeed Saifullah, Haibo Zhang; "Burst-MAC: A MAC Protocol for Handling Burst Traffic in LoRa Network"; In IEEE **RTSS '24** (The 44th IEEE Real-Time Systems Symposium); pp. 1–12; 2024.

Md Ashikul Haque, Abusayeed Saifullah; "A Game-Theoretic Approach for Mitigating Jamming Attacks in LPWAN"; In ACM **EWSN '23** (The 20th International Conference on Embedded Wireless Systems and Networks); pp. 274–284; 2023.

Workshop Publication	**Md Ashikul Haque**, Dali Ismail, Abusayeed Saifullah; "Scalable Real-Time Control in Industrial Cyber-Physical Systems"; In SDN-CPS '23 (International Workshop on Software-defined Network for Cyber Physical System Automation); pp. 353–358; 2023.
Under Review	**Md Ashikul Haque**, Abusayeed Saifullah; "Decoding LoRa Packets under Collaborative Jamming Attacks"; pp. 1–13.
	Md Ashikul Haque, Abusayeed Saifullah, Haibo Zhang; "Generative Policy Coordination for Coexisting Learning-Enabled LPWANs"; pp. 1–12.
Selected Talk	**Mitigating Jamming Attacks in LoRa Networks: A Defense Strategy against LoRa-Based Jammers**; MobiHoc '25, Rice University, Houston, USA, October 2025
	Handling Jamming Attacks in a LoRa Network; IoTDI '24, Hong Kong, China, May 2024

Research Grant

Jamming Mitigation in IoT Networks	2025
Wrote with PI Abusayeed Saifullah	Under review at NSF

Experience

Graduate Research Assistant, Deptartment of Computer Science	2022-Present
University of Texas at Dallas, USA	
Wayne State University, USA	
Iowa State University, USA	
Advisor: Prof. Abusayeed Saifullah	
Assistant Engineer, ICT Division	2020-2021
Dhaka Electric Supply Company, Bangladesh	
Software Engineer, IoT Division	2019-2020
Samsung R&D Institute, Bangladesh	

Teaching

Guest Lecturer multiple times	2025
University of Texas at Dallas, USA	
Course: Internet of Things	
Lecturer, Deptartment of Computer Science	2018-2019
Millenium University, Bangladesh	
Course: Structured Programming, Data Communication	

Award

Professional Travel Award	2024
College of Engineering, Wayne State University, USA	
SIGBED Travel Grant	2023
CPS IoT Week 2023, San Antonio, Texas, USA	

Professional Service

Conference Referee

ACM Conference on Embedded Networked Sensor Systems (SenSys)	2022, 2024, 2025, 2026
IEEE Real-Time Systems Symposium (RTSS)	2023, 2024, 2025
IEEE Real-Time & Embedded Tech. & Applications Symp. (RTAS)	2023, 2024
IEEE Conf. on Sensor, Mesh & Ad Hoc Comm. & Net. (SECON)	2023
European Conference on Wireless Sensor Networks (EWSN)	2023, 2024, 2025
IEEE Conf. on Distributed Computing in Smart Systems (DCOSS)	2024
IEEE Conf. on Embedded & Real-Time Comp. Sys. and App. (RTCSA)	2024, 2025

Journal Referee

IEEE/ACM Transactions on Networking	2024, 2025
Elsevier Pervasive and Mobile Computing	2023