Tanzina Taher Ifty

George Mason University

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ResearchGate: https://www.researchgate.net/profile/Tanzina-Taher
GitHub: https://github.com/TanzinaTaher

Education

George Mason University — **Fairfax, VA, USA**
Ph.D in Electrical and Computer Engineering — *Fall 2025 - Ongoing*

Ahsanullah University of Science and Technology — **Dhaka, Bangladesh**
B. Sc. in Computer Science and Engineering — *Spring 2019 - Fall 2022*
CGPA: 3.531 on a scale of 4.00

Ideal School and College — **Dhaka, Bangladesh**
Higher Secondary Certificate — *2016 - 2018*
GPA: 5.00 on a scale of 5.00

Motijheel Model School and College — **Dhaka, Bangladesh**
Secondary School Cetificate — *2016*
GPA: 5.00 on a scale of 5.00

Work Experience

Graduate Teaching Assistant — **Fairfax, VA, USA**
Dept of Electrical and Computer Engineering
George Mason University — *Fall 2025 - Present*

Research Interests

Robotics, Robot Learning, Computer Vision, NLP, Multimodal AI

Publications

- **Tanzina Taher Ifty**, Saleh Ahmed Shafin, Shoeb Mohammad Shahriar & Tashfia Towhid. **"Explainable Lung Disease Classification from Chest X-Ray Images Utilizing Deep Learning and XAI"**. Published in *IEEE International Conference on Computing and Machine Intelligence* (*ICMI 2024*), *Central Michigan University* (*CMU*), *Michigan, USA.*
- **Tanzina Taher Ifty** & Swapnil Sharma Sarker. **"Automated and Context-Aware Code Documentation Leveraging Advanced LLMs"**. Accepted for presentation in *The 18th International Natural Language Generation Conference* (*INLG 2025*), *Hanoi, Vietnam.*

Current Research

- **Robot Manipulation with Tactile Sensing** – Designing control and perception methods for robotic arms to identify and interact with objects through contact feedback.

- **Linear Control Systems for Robotics** – Developing and analyzing state-space models and feedback controllers (pole placement, LQR) for mechanical and robotic systems.
- **Imitation Learning from Internet Videos** – Extracting human hand poses from online videos and transferring them to robots for skill imitation.

Technical Skills

Languages: Python, C, C++, C#, JAVA, HTML5, PHP, JavaScript, 80x86 Assembly
Framework: MATLAB, CSS, WebGL
Database: MySQL
Design Tools: NetBeans, Microsoft Visual Studio, Jupyter Notebook
Operating System: Windows, Android
Deep Learning Tools: Keras, Tensorflow, Pytorch
Others: PL/SQL, LaTeX