

# Md Tahmid Rashid

222 Fitzpatrick Hall, College of Engineering, University of Notre Dame, IN 46556, USA

**E-mail:** mrashid@nd.edu **Website:** www.tahmid.me **LinkedIn:** mtrashid

## Research Interest:

My research centers on the unification of physical and cyber realms, otherwise known as cyber-physical systems. With my background on electronics and skills on computer science I aim to develop systems that will harness information from our social and physical worlds to solve some of the critical challenges in sensing, disaster response and situation awareness.

## Education:

### University of Notre Dame

PhD. in Computer Science and Engineering

Notre Dame, IN, USA

Aug 2018-present

### BRAC University

B.S. in Electrical and Electronic Engineering

Dhaka, Bangladesh

Jan 2012-Apr 2015

## Professional Experience:

### System Design Engineer

SoftwindTech Limited.

Jul 2015 – Dec 2016

### Graduate Teaching Assistant

Department of CSE, University of Notre Dame, USA Responsible for the following course:

Aug 2018 – Present

- CSE 30332: Programming Paradigms

### Undergraduate Teaching Assistant

Department of EEE, BRAC University

Responsible for the following courses:

Sep 2013 – Aug 2014

- ECO 105: Fundamentals of Economics
- EEE 209: Semiconductor Devices and Materials

### Lecturer

Department of EEE, Northern University Bangladesh

The following courses have been instructed till now:

Jan 2017-Present

- Analog Electronics
- Communication Theory
- Electromagnetic Fields and Waves
- Power System Reliability

## **Publications:**

- [1] **Md Tahmid Rashid**, Daniel Zhang, Lanyu Shang, and Dr. Dong Wang, "SEAD: Towards A Social-Media-Driven Energy-Aware Drone Sensing Framework". The 25th IEEE International Conference on Parallel and Distributed Systems (ICPADS) 2019, Tianjin, China (Accepted).
- [2] **Md Tahmid Rashid**, Daniel Zhang, Zhiyu Liu, Hai Lin, and Dr. Dong Wang, "CollabDrone: A Collaborative Spatiotemporal-Aware Drone Sensing System Driven by Social Sensing Signals". The 28th International Conference on Computer Communications and Networks, ICCCN 2019, Valencia, Spain.
- [3] **Md Tahmid Rashid**, Daniel Zhang, and Dr. Dong Wang, "EdgeStore: Towards an Edge-based Distributed Storage System for Emergency Response". The 17th IEEE International Conference on Smart City, IEEE SmartCity 2019, Zhangjiajie, China.
- [4] Daniel (Yue) Zhang, Nathan Vance, Yang Zhang, **Md Tahmid Rashid**, and Dong Wang. "EdgeBatch: Towards AI-empowered Optimal Task Batching in Intelligent Edge Systems." The 40th IEEE Real-Time Systems Symposium (RTSS) 2019, Hong Kong, China (Accepted).
- [5] Daniel Zhang, **Md Tahmid Rashid**, Xukun Li, Nathan Vance, and Dr. Dong Wang, "HeteroEdge: Taming The Heterogeneity of Edge Computing System in Social Sensing," *ACM/IEEE IoTDI*, Apr. 2019, Canada.
- [6] Nathan Vance, **Md Tahmid Rashid**, Daniel Zhang, and Dr. Dong Wang, "Towards Reliability in Online High-Churn Edge Computing: A Deviceless Pipelining Approach," *IEEE SmartComp*, Jun. 2019, Washington, USA (Accepted).
- [7] Mohammad Samin Yasar, **Md Tahmid Rashid**, and Dr. Md. Khalilur Rhaman, "Digitization of the Entire Traffic System and Mitigation of the Ongoing Traffic Crisis Across Cities of Developing Nations," *IEEE TENCON 2015*, Nov. 2015, Macau.
- [8] **Md Tahmid Rashid** and Mohammad Samin Yasar, "Implementation of Dynamic Traffic Light Controllers Using Artificial Neural Networks to Diminish Traffic Ordeals," *European Modelling Symposium 2015*, Oct. 2015, Madrid.
- [9] **Md Tahmid Rashid**, Pritom Chowdhury, and Dr. Md. Khalilur Rhaman, "A voice guided surveillance robot with DTMF control and web based control" [*IEEE CoSponsored*] *18th International Conference on Computer and Information Technology (ICCIT) 2015*, Dec. 2015, Dhaka.
- [10] **Md Tahmid Rashid**, Md. Shadman Sakib Chowdhury, and Mehbas Fairuz Nawal, "Composite Indoor Localization and Positioning System Based on Wi-Fi Repeater Technology," *IEEE TENCON 2016*, Nov. 2016, Singapore.
- [11] **Md Tahmid Rashid**, Imtiaz Kalam Abir, Niaz Sharif Shourove, Rakibun Muntaha and Dr. Md. Khalilur Rhaman, "Intelligent Intrusion Prevention System for Households Based on System-On-Chip Computer" *IEEE Canadian Conference on*

*Electrical and Computer Engineering (CCECE) 2016*, Vancouver, Canada, May 2016.

- [12] **Md Tahmid Rashid** and Syed Ayaz Mahmud, “Intelligent Seeker Robot to Locate Dead Bodies and Survivors under Debris” *2017 IEEE Global Humanitarian Technology Conference (GHTC 2017)*, California, USA, Oct. 2017.
- [13] **Md Tahmid Rashid**, Ahad Hossain and Md Nazmul Hussain, “Automated Traffic Measurement System Based on FCD and Image Processing” *IEEE TENCON 2017*, Nov. 2016, Singapore.
- [14] Syed Mahmud Hasan, **Md Tahmid Rashid**, Md. Shadman Sakib Chowdhury and Dr. Md. Khalilur Rhaman, “Development of a Credible and Integrated Electronic Voting Machine Based on Contactless IC Cards, Biometric Fingerprint Credentials and POS Printer” *IEEE Canadian Conference on Electrical and Computer Engineering (CCECE) 2016*, Vancouver, Canada, May 2016.
- [15] Md. Shadman Sakib Chowdhury, **Md Tahmid Rashid**, Mehbas Fairuz Nawal and Dr. Md. Khalilur Rhaman, “Terminal analysis of the operations of a rescue robot constructed for assisting secondary disaster situations,” *The IEEE Region-10 Humanitarian Technologies Conference for Disaster Prevention and Risk Reduction (IEEE-R10 HTC) 2015*, Dec. 2015, Philippines. (Received “Best Paper Award”).
- [16] Imtiaz Kalam Abir, Hamid Bin Zaman, Moontasir Hassan, **Md Tahmid Rashid** and Dr. Md. Khalilur Rhaman “Development and Feasibility Evaluation of a Low-Cost Smart Voyage Data Recorder: Marine Black Box,” *IEEE International Conference On Control System, Computing and Engineering (ICCSCE) 2015*, Nov. 2015, Malaysia.

Google Scholar Link: <https://scholar.google.com/citations?user=Lj52wsUAAAAJ>

### **Academic Awards and Honors:**

- Graduated with “Highest Distinction” honor (summa cum laude).
- Placed in the “Vice Chancellor’s List” for four times for scoring a GPA of 3.9.
- Placed in the “Dean’s List” for four times for scoring a GPA of 3.7 and above.
- Awarded the “Vice Chancellor’s Choice” in Summer 2012, BRAC University.
- Awarded “The Daily Star Award” in 2010 for outstanding grades in GCE O Level.

### **Professional Affiliations:**

- IEEE Student Member
- IEEE Special Interest Group on Humanitarian Technology (SIGHT) Member
- IEEE Young Professional Affinity Group Member

### **Programming Language Proficiency:**

Python, C, C#, Java, MATLAB, JavaScript, R, VHDL, Assembly Language