

Tasmina Imam

Phone: +929 685 7027 | Email: tasmina.imam01@gmail.com

LinkedIn: [Tasmina Imam](#) | Texas, USA

Research Interests

Biomedical Signals & Devices, Embedded Systems, Machine Learning, Power System

Education

Master of Engineering Science, Electrical and Electronic Engineering, *Ongoing*

Lamar University, Texas, USA

CGPA: 4.00/4.00

Bachelor of Science, Electrical and Electronic Engineering, *Dec 2018*

North South University, Dhaka, Bangladesh

CGPA: 3.72/4.00, Magna Cum Laude

Teaching & Research Experience

Lab Officer – Dept of Electrical & Computer Engineering (*May 2019 – Present*)

North South University, Dhaka, Bangladesh

- Teaching and conducting undergraduate lab courses (Electrical Circuit I & II, Digital Logic Design, Analog Electronics, Communication System)
- Delivering lectures relevant to the lab sessions
- Grading exams, assignments, reports and overall lab sessions

Project Research Assistant – Dept of Electrical & Computer Engineering (*Mar 2021 – Mar 2022*)

TnR Lab, Biomedical Research Group, North South University, Dhaka, Bangladesh

- Developed a system in order to acquire ECG and PPG signals simultaneously from subjects using NI-DAQ USB-6001. Processed signals to extract some features, such as PAT, PWV to find significant changes in the blood flow. [Publication link](#).
- Co-authored on the journal, “An Efficient Surface Map Creation and Tracking Using Smartphone Sensors and Crowdsourcing”. [Publication link](#).

Graduate Teaching Assistant (*Sep 2020 – Dec 2020*)

North South University, Dhaka, Bangladesh

- Teaching undergraduate course Intro to Communication, evaluating students and grading assignments, counseling/advising students during office hours

Undergraduate Teaching Assistant (*Jan 2019 – April 2019*)

North South University, Dhaka, Bangladesh

- Teaching and conducting undergraduate courses on Digital Logic Design, and Analog Electronics, evaluating students and grading assignments, counseling/advising students during office hours

Internship Experience

Intern – Enterprise Business Solution, Marketing Division (ICT) (*Oct 2018 – Feb 2019*)

Grameenphone Ltd.

- Contributed to a Presales Engineer Team of ICT Solutions in Enterprise Business of Marketing Division
- Analyzed & provided product knowledge support to the Sales Team
- Assisted the Sales team in finding ICT opportunities, product demonstration, and following up the account until its activation
- Monitored and analyzed ICT solutions like Audio-Video Conferencing, Vehicle Tracking, Voice Broadcasting, Corporate Bulk SMS, Internet of Things (IoT), Smart Surveillance, and others

Language Proficiency

- **IELTS**, Sep 2022
Band Score – 7.0 (Listening – 7.5, Reading – 6.0, Writing – 7.0, Speaking – 7.0)

Technical Skills

- Mathematical Modeling and Programming: **MATLAB, C (basic), Python (intermediate)**
- Electronic Circuit Optimization & Simulation: **Multisim, Logisim, WinSpice**
- Computer Aided Drawing: **AutoCAD (2 D & 3D)**
- Word Processing and Presentation Tool: **MS Word, MS PowerPoint**
- Data Processing, Management and Database Tool: **MS Excel**
- LMS: **Canvas**

Professional Training

- [Machine Learning with MATLAB](#)
- [Python, Kaggle](#)
- Complete Python Bootcamp, Udemy

Awards and Achievements

- Magna Cum Laude of academic excellence, 2019
- Tuition Waiver Award, North South University, 2016-2018
- Certificate of Contribution, Communication Camp, INSB WIE Affinity Group, 2017
- Certificate of Appreciation, IEEE Authorship Workshop, 2017
- Best Speaker, Annual Debate Competition, Agrabad Balika Bidyalay, 2010
- 1st Place, Extempore Speech Competition, Agrabad Balika Bidyalay, 2010
- 3 Times Champion, Annual Debate Competition, Agrabad Balika Bidyalay, 2008-2010

References

Available upon request.