

# NUMAYER ANDALIB ZAMAN

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## EDUCATION

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- **European Master for Industry in Microwave Electronics and Photonics** *Sep 2024-Present*  
University of Limoges, France; University of Brescia, Italy; UPV/EHU, Spain / FSU Jena, Germany.
- **B.Sc. in Electrical & Electronic Engineering** *Apr 2018 - Dec 2022*  
Ahsanullah University of Science & Technology (AUST), Dhaka  
CGPA: **3.766/4.00** [www.aust.edu](http://www.aust.edu)
- **Higher Secondary Certificate (HSC): Public Exam** *Class of 2017*  
Dhaka City College, Dhaka  
GPA: **5.00/5.00**

## PROFESSIONAL EXPERIENCE

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- **Lecturer** *Nov 2023 – Aug 2024*  
Department of EEE, Dhaka International University (DIU) [www.diu.ac](http://www.diu.ac)  
Preparing and delivering lectures and instructing lab courses
  - Arranging and participating in seminars and conferences on campus.
  - Counseling undergraduate students
- **Research Assistant (Part-time)** *Mar 2023 – Jun 2023 & Aug 2023 - July 2024*  
Department of EEE, Ahsanullah University of Science & Technology (AUST)
  - Research Grant: *Novel design and performance analysis of Photonic Crystal fiber sensors for medical and chemical applications*

## PUBLICATIONS AND RESEARCH INTERESTS

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- JOURNALS:
  1. **Numayer A Zaman, Nur. Akash, F. Nayan**, “A high-performance biosensor design for waterborne bacteria detection based on 1D photonic crystal”, 2023, ***Physica Scripta (IOP Science)***.
  2. **M H Fuad, F Nayan, M A Raihan, Numayer A Zaman, R R Mahmud**, “Impact of Tube Diameter and Dielectric Constant on the Performance of CNTFET-Based 8T SRAM Cells”, 2023 ***Microelectronic Engineering (under review)***.
  3. **Numayer A Zaman, F. Nayan, Arif Raihan, M H Fuad, T Ahmed, R R Mahmud**, “Simulation analysis of a highly sensitive biosensor based on a 1D photonic crystal for early detection of cancer cells”, 2024 (Under review)
- RESEARCH INTERESTS:
  - Optics and photonic applications, Nanoelectronics, Optical & biomedical technology, VLSI, Semiconductors, etc.

## HONORS AND AWARDS

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- ❖ ERASMUS Mundus Scholarship, EMIMEP 2024-26 *September, 2024*
- ❖ Dean's Honor Award, AUST *December, 2022*
- ❖ Scholarship based on academic and overall performance, AUST *Fall 2019 & Fall 2020*
- ❖ Merit-based General Govt. Scholarship in public exam (SSC & HSC) *2015 & 2017*

## TECHNICAL SKILLS

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- **Programming Languages:** MATLAB, Python, Arduino.
- **Tools:** Microsoft Office Suite (Word, PowerPoint, Excel), Google Workspace, VS Code.
- **Simulators:** MATLAB, ADS, OrCAD PSpice, Proteus, HFSS, COMSOL Multiphysics.
- **Design Software:** Adobe Illustrator.

## CERTIFICATES & TRAINING

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- **Python for Beginners** *September, 2023*  
SkillUp by Simplilearn Python Course; <https://simpli-web.app.link/e/aXYEGaXPdDb>
- **Elements of AI** *July, 2023*  
University of Helsinki online course by Minnalearn; <https://certificates.mooc.fi/validate/1wq930dvqg8h>
- **Basic Safety Training** *October, 2022*  
Samsung C&T Corporation
  - First Aid (CPR, AED), Fire Safety, Introduction to Industrial Safety Equipment etc.

## LANGUAGES AND TEST SCORES

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### LANGUAGES:

- Bengali (Native)
- English (Proficient)
- French (Basic)

### TEST SCORES:

- IELTS:  
CEFR Level: **C1**

## SEMINARS AND CONFERENCES

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- Organizing Assistant; **International Conference on Application of Artificial Intelligence in Engineering, Business, Law, Teaching-Learning, Commerce and Industry**  
Dhaka International University *4 Nov, 2023 – 5 Nov, 2023*  
<https://diu.ac/event-details/international-conference>
- Participant; **Lecture Workshop on German Language and Literature**  
Dhaka International University *October, 2023*  
<https://drive.google.com/file/d/1kbW7enKTWFw7PyUNZjTrtAhI2TwSlqW4/view>

## EXTRACURRICULAR ACTIVITIES

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- ❖ Organizer; EEE Sports Carnival, Dhaka International University *Feb, 2024*
- ❖ Finalist; Walton Presents 'Mindsparks VLSI Hackathon', AUST *2022*
- ❖ Participant; AUST Final Year Design Project Poster Exhibition (FYDP) and Competition *2022*
- ❖ General member, Innovation and Design Club, AUST *2018-2022*
- ❖ Organizing member, AUST EEE Festival *Spring 2021*