

# Tazrian Noor

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## Education

- 2020 – 2024 ■ **B.Sc, Electrical and Electronic Engineering (EEE), Independent University, Bangladesh.**  
CGPA: 3.66  
Thesis title: *Investigating the effect of graphene on the opto-electronic performance of thin-film solar cells.*
- 2018 – 2019 ■ **International Advanced Levels (IAL), British Council, Sylhet.**  
Chemistry (A\*), Physics (A), Mathematics (A), Further Pure Mathematics (A)
- **International General Certificate of Secondary Education (IGCSE), ANAN-DANIKETAN.**  
Chemistry (A\*), Physics (A\*), Biology (A\*), Mathematics (A\*), Bangla (A\*), Further Pure Mathematics (A), ICT (A), English (A)

## Research Publications

### Journal Articles

- 1 R. B. Sultan, A. Al Suny, **T. Noor**, M. H. Hossain, and M. H. Chowdhury, “Use of particle swarm optimization algorithm to optimize the embedded sio2 nano-grating structure with plasmonic coating layer of aluminium for performance enhancement of cadmium telluride thin film solar cells,” 2024, Manuscript in Preparation.

### Conference Proceedings

- 1 A. Al Suny, S. Tohfa, R. B. Sultan, M. H. Hossain, **T. Noor**, and M. H. Chowdhury, “Enhancing the opto-electronic performance of Cadmium Telluride thin-film solar cells using nanocone-shaped surface texturing,” in *2023 5th International Conference on Sustainable Technologies for Industry 5.0 (STI)*, IEEE, 2023.
- 2 **T. Noor**, M. H. Hossain, A. Pramanik, A. Al Suny, R. B. Sultan, S. Tohfa, and M. H. Chowdhury, “Enhancing the opto-electronic performance of thin-film solar cells using embedded nanorods comprised of single walled Carbon nanotubes,” in *2023 5th International Conference on Sustainable Technologies for Industry 5.0 (STI)*, IEEE, 2023.
- 3 R. B. Sultan, A. Al Suny, S. Tohfa, **T. Noor**, M. H. Hossain, and M. H. Chowdhury, “Use of nano-grating structures embedded within the absorbing substrate to optimize the efficiency of cadmium telluride thin-film solar cells,” in *TENCON 2023-2023 IEEE Region 10 Conference (TENCON)*, IEEE, 2023, pp. 1234–1239.




## Research Presentations

- 1 **T. Noor**, M. H. Hossain, A. Pramanik, A. Al Suny, R. B. Sultan, S. Tohfa, and M. H. Chowdhury, *Enhancing the opto-electronic performance of thin-film solar cells using embedded nanorods comprised of single walled Carbon nanotubes*, **Oral Presentation** at 2023 5th International Conference on Sustainable Technologies for Industry 5.0 (STI), 9th-10th December, 2023, Green University, Bangladesh, Dhaka.

- 2 T. Noor, M. H. Hossain, A. Pramanik, and M. H. Chowdhury, *Effect of solar path throughout the day on the opto-electronic performance of plasmonic thin film solar cells*, **Oral Presentation** at IEEE Computer Society Bangladesh Chapter Summer Symposium 2023, 9th-10th June, 2023, Islamic University, Kushtia.





## Work Experience

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- March, 2022 – Present     **Undergraduate Research Assistant**, IUB-Photonic Simulation Lab (IUBPSL).
- October – December, 2023     **Student on Duty (SoD), Department of EEE**, Independent University, Bangladesh.  
Course name: *Microprocessor and Interfacing Lab (EEE323L)*, *Communication Engineering Lab (ETE322L)*
- February – May, 2023     **Student on Duty (SoD), Department of Physics**, Independent University, Bangladesh.  
Course name: *Physics 101L*, *Physics 102L*

## Skills





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- Simulation Tools     ANSYS LUMERICAL (FDTD, CHARGE), SCAPS 1D, CADENCE (GPDK 90nm), Simulink, PSIM, Proteus, PSpice, AUTOCAD Electrical, Cisco Packet Tracer
- Programming     Python, MATLAB, Lumerical Scripting Language, C++, C, Verilog, VHDL, Arduino,  $\text{\LaTeX}$
- Productivity     Microsoft Office Suit, Canva
- Languages     Strong reading, writing and speaking competencies for English and Bangla. Elementary skills in French.

## Honors and Awards

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### Awards and Achievements

- 2022     **Dean's Honour List**, Independent University, Bangladesh.
- 2021     **Vice Chancellor's List**, Independent University, Bangladesh.
-  **Edexcel Higher Achievers' Award, IGCSE & IAL**, Pearson.
-  **Daily Star Award, IGCSE & IAL**, Daily Star.