

# MD AL AMIN ASHIK

Electrical & Electronic Engineering (BSEEE)

Website: <https://alaminn.com>

Phone: +880 18494-72106

Email: [alaminn.ashik@northsouth.edu](mailto:alaminn.ashik@northsouth.edu)

LinkedIn: <https://www.linkedin.com/in/al-amin-ashik/>

## EDUCATION

- **North South University** 2019 - 2024  
Completed Undergraduate in Electrical and Electronic department, **CGPA 3.83 (4 point scale)**.
- **Hurdco International School** 2014 - 2019  
Studied from class 7 to Alevels, Cambridge Curriculum.  
Advanced Level (Alevel) **1A\* 2A**, Ordinary Level (Olevel) **2A\* 4A 1B**.

## PROFESSIONAL EXPERIENCES

- **Drishti Technologies Limited** 12/2024 - Current  
**Embedded System Engineer**
  - Re-designed “ABHASH” circuit & enclosure completely and introduced features and stability.
  - Worked with industrial automation and developed robust circuit along with testing in the industrial environment.
  - Developed strong understanding about electronic circuits and 3d Printing.
  - Can build and debug PCB, PCBA boards using both SMD and THT components.
- **North South University** 8/2023 - Current  
**Research Assistantship**
  - Prepared AVR based electronics hardware projects, PCBs, and simulations.
  - Created several programs using LabVIEW to automate processes.
  - Prepared articles, reports, short video tutorials, and presentations.  
**Undergraduate Teaching Assistant** 9/2022 - 6/2023
  - Taught Undergrad level Physics, Digital and Analog circuit courses.
  - Instructed students at analog electronics projects.
  - Assisted faculties regarding various educational works.

## NOTABLE THESIS PROJECTS

- Fully automated LabVIEW & Matlab Based Characterization Of Indoor Air Quality Improvement with Various Natural Air Purifiers. (as 1<sup>st</sup> author).
- LabVIEW Controlled Low Cost Early-Stage Detection Of Fatigue Using ECG & EMG Sensors.
- Studying Load Dependence Problem In Pass-Transistor-Logic (PTL) Based MUX & DeMUX. (as 2<sup>nd</sup> author).

## SKILLS

- **Circuitry:** Proficient in simulating circuits using NI Multisim, Logisim, and Proteus. Developed various circuits using kiCAD PCB design tool.
- **Programming:** Extensive experience with PlatformIO and NI LabVIEW for developing automated systems. Proficient with Arduino IDE and C++ in developing electronic devices.
- **Graphical:** Experienced with SketchUp tool for interior designs. Can model complex structures using AutoCAD.
- **Analytical skills:** Strong analytical abilities to identify the requirements and provide appropriate solutions.

## AWARDS

- Winner of SpringBoard Programme 6.0 by YOUTH CO Lab. 2024
- Appreciation for conducting workshop on “PCB design using KiCAD” organized by IEEE NSU. 2024
- Appreciation for conducting “Workshop On Wordpress” organized by IEEE NSU IAS SBC. 2024
- Guest of Honour Crest, Hurdco Science Fair 2019. 2019
- Daily Star award medal for O & Alevel Result. 2017, 2019
- Winner at Scholastica Inter-School Olympiad in informatics. 2018
- Participation certificates for various Science fair and Olympiads. 2016-2019