Noor Al Din Ahmed

B.Sc. in Electrical & Electronic Engineering

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Portfolio: projects.electromysterio.tech

AREA OF INTEREST

I am a dependable person who is great at time management and is always eager to learn new things. My ultimate aim is to become an IoT expert in hardware, software and security. And hence my interest lies in mastering all kinds of IoT edge hardware, web designing & development, app development, computer networking and more importantly UI & UX.

BASIC ACADEMIC CREDENTIALS

Qualification	Institution	Year	CGPA
B.Sc in Electrical & Electronic Engineering	North South University	Spring 2018	3.07 out of 4
A'Level	Maple Leaf International School	2012	2.5 out of 5
O'Level	Siddiqui's International School	2009	3.8 out of 5

WORK EXPERIENCE

Genie IoT
Co-Founder & Design Engineer
(Dec 2017 – Present)
www.genie-iot.com

Genie IoT is a consumer goods & IT company that specializes in automating houses using their own Bengali Speech Recognition AI that communicates through IoT edge devices.
- Designing and simulating Circuits
- Designing PCB
- Soldering all components on PCB (SMD and THD)
- Writing Firmware
- Assembling all modules and Installation.

EXPERIENTIAL LEARNING (FINAL YEAR PROJECT)

Project Title : IoT based Home Automation Solution with voltage regulation using Triacs and Zero crossing detectors and a Django backend.

Supervisor : Dr. Tanzilur Rahman, Assistant Professor & Program Coordinator (CSE), Dept. of Electrical and Computer Engineering, North South University.

Duration : 8 months (Summer 2017 to Fall 2017)

Project Achievements :
- Top 6 finalist in Banglalink IT Incubator 2.0
- Champion – Project and Poster Presentation, Power Buzz, IEEE NSU Power and Energy Society.
- 1st Runner up - Capstone Innovation Challenge, North South University.

IT PROFICIENCY

Software:	Altium Designer, Proteus, Logisim, Multisim, Arduino IDE, Matlab, SolidWorks, Adobe Photoshop, Adobe Illustrator, Microsoft Office, GitHub, Node.js
Hands on:	Circuit building, Soldering (THT & SMT), Circuit repair & troubleshooting
Language:	Python, Embedded C++, C, Verilog HDL
Frameworks:	Django, Platform IO, Ionic, Angular
Deployment Servers:	Amazon AWS, Heroku, Github Pages, Python Anywhere, Firebase Hosting
Markup Languages:	HTML, Typescript, JavaScript, CSS, Bootstrap
Operating Systems:	Windows, Linux

PROJECTS

- **Self-balancing robot**- A 2 wheeled robot that balance itself using MPU-6050 gyroscope module, L293D motor driver and Arduino Nano.

- **Remote controlled/Line Follower Robot** – A robot that follows a fixed width line that also doubles as a remote controlled car. Built using HC-05 Bluetooth module, QTR-8A Reflectance sensor, L293D motor driver and Arduino Nano.

- **Bluetooth interfacing Android App** – An app built using MIT App Inventor to control the above robot that steers it using the phone's built-in gyroscope and Bluetooth.

- **Genie IoT backend** – Extension of final year project along with models, forms, authentication, etc written in Python-Django.

- **Genie IoT Website** – Main website of Genie IoT that is built using Angular 7 and hosted on Firebase Hosting. Link: www.genie-iot.com

- **Photoshop and Illustrator Automation**- Batch automation of a repetitive templating using Javascript.

EXTRA-CURRICULAR ACTIVITIES

- Webmaster and Executive Committee Member of IEEE Robotics and Automation Society Bangladesh Chapter.
- Mentor of IEEE NSU Robotics and Automation Society Student Branch Chapter.
- Graphic Designer of IEEE North South University Student Branch.
- Freelance Graphic Designer at Upwork
- Ex- Guitarist/lyricist of Enmachined (Album released from Salute Records, Sweden).

PERSONAL DETAILS

- **Father's Name:** Late Salahuddin Ahmed
- **Permanent Address:** 4th Floor, House 35, Road 4
  Block D, Section 1, Mirpur
  Dhaka 1216, Bangladesh.
- **Date of Birth:** 7th October, 1992
- **Language:** English & Bengali
- **Nationality:** Bangladeshi
- **Interest & Hobbies:** Internet browsing, guitar playing,
  Computer gaming, socializing.

REFERENCE

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