

## DIPANJAN SWARNAKAR

3rd floor, House: 96, 1st Lane, Malibagh, Dhaka.

Contact no: +8801681480332

LinkedIn: [www.linkedin.com/in/dipanjan-swarnakar-837646108/](http://www.linkedin.com/in/dipanjan-swarnakar-837646108/)

Email: [dswarnakar172010@bsee.uiu.ac.bd](mailto:dswarnakar172010@bsee.uiu.ac.bd)

GitHub: <https://github.com/Dipanjan98>

Portfolio: <https://dipanjan98.github.io/>



### **OBJECTIVES:**

To serve in a responsible administrative position at a well-structured organization and successfully apply acquired managerial and interpersonal skills to enhance organizational efficiencies.

### **ACADEMIC QUALIFICATION:**

- Bachelor of Science in Electrical and Electronics Engineering (EEE)
  - ❖ Institution: United International University, Dhaka, Bangladesh.
  - ❖ Major: Electronics
  - ❖ Minor: Computer
- Obtained CGPA: 2.66
- Higher Secondary School Certificate (H.S.C)
  - ❖ Institution: Motijheel Govt. Boys High School (Attending year: 2014 & Obtained GPA:4.17)
- Secondary School Certificate (S.S.C)
  - ❖ Institution: Motijheel Model High School and college (Attending year: 2012 & Obtained GPA:5.00)
- Junior School Certificate (J.S.C)
  - ❖ Institution: Motijheel Model High School and college (Attending year: 2011 & Obtained GPA:4.07)

### **Experience:**

- Virtual Deputy IYS Co-ordinator  
Part-time  
Workplace Skills Development Academy, New Zealand  
May 2020- January 2021
- Customer Relations Officer  
Part-time  
Circuit Solution LTD  
Mirpur, Dhaka, Bangladesh  
May 2021-Dec 2021

- IT Officer  
Internship  
Ignite Youth Foundation  
Dhaka, Bangladesh  
July 2021-Present

## **EDUCATION/TRAINING:**

- 6-month Internship Program at Ignite Foundation as an Information Technology Officer.  
URL: [1644257339603 \(2048×1468\) \(licdn.com\)](https://www.linkedin.com/company/ignite-youth-foundation/)
- 3-month Internship Program at Current Digest Magazine as a Voice Over Artist.  
URL: [1644257482147 \(484×374\) \(licdn.com\)](https://www.linkedin.com/company/current-digest-magazine/)
- 6-Week Internship Program at Upkey as an Summer Intern.  
URL: [1633365685878 \(697×543\) \(licdn.com\)](https://www.linkedin.com/company/upkey/)
- Robotics: Aerial Robotics from University of Pennsylvania via Coursera.  
Credential URL: <https://www.coursera.org/account/accomplishments/certificate/VLV8S8WHKPZ3>
- Software Security from University of Maryland, College Park via Coursera.  
Credential URL: <https://coursera.org/share/4d7e0a8cee1bbb079f3d994a82cf04b3>
- Introduction to Machine Learning from Duke University via Coursera.  
Credential URL: <https://coursera.org/share/15f57bef33aa4e164f9212a9840467b0>
- Psychological First Aid from Johns Hopkins University via Coursera.  
Credential URL: <https://coursera.org/share/e08cf002a71d2d231b697b2f9ea944f0>
- Programming for Everybody (Getting Started with Python) from University of Michigan via Coursera.  
Credential URL: <https://coursera.org/share/4b632484a0da45bfda732a211ea7a67c>
- Python Basic from University of Michigan via Coursera.  
Credential URL: <https://coursera.org/share/68bfee3b92be0793f04e5c8a827631c9>
- Python Data Structures from University of Michigan via Coursera.  
Credential URL: <https://www.coursera.org/account/accomplishments/certificate/E965TBJN8QXV>
- Wireshark: Packet Analysis and Ethical Hacking: Core Skills via Udemy.  
Credential URL: <https://www.udemy.com/certificate/UC-b461bc84-47a5-43e6-a189-844c5c15fc51/>
- Create a Project Management Tracker using Google Sheets via Coursera.  
Credential URL: <https://coursera.org/share/02597364d5180189463a016bdbb4bdf0>
- Creating a Free Business Page with Blogger via Coursera.  
Credential URL: <https://coursera.org/share/07a2e6af5d48e91ebfc6fd94b5c0efe9>
- Search Engine Optimization (SEO) with Squarespace via Coursera.

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/67T8QX32B87W>

- Introduction to Basic Game Development using Scratch via Coursera.

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/TL7YV6GQTT8Q>

- Getting Started with Azure DevOps Boards via Coursera.

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/A9P295R4HGPR>

- Semantic Segmentation with Amazon Sagemaker via Coursera.

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/5SXPNUHDE7AL>

- AWS Cloudfront: Serve content from multiple S3 buckets

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/H9ZCTDD3ZH5M>

- Machine Learning Pipelines with Azure ML Studio

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/FWTPGURYMF7P>

- Introduction to CRM with HubSpot

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/7VENYW3Z5XW6>

- Use Canva to Create Desktop and Mobile-friendly Web Pages.

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/DAKB7SP26UBM>

- Building a Business Presence With Facebook Marketing

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/VEWFW9Q26Q2S>

- Azure Synapse SQL Pool - Implement Polybase

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/E4TWGDFT7U9R>

- AWS S3 Basics

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/T6VY6ZSYR4XR>

- Create a Storyboard using Canva

Credential URL:

<https://www.coursera.org/account/accomplishments/certificate/4VC26LUMHRLI>

- Digital Security Essential from MuktoPaath.

Credential URL:

<http://admin.muktopaath.gov.bd/public/storage/uploads/certificates/ff0121853886bbd207abde2cc64eed33.jpg>

- Basic Graphic Design from MuktoPaath.

Credential URL:

<http://admin.muktopaath.gov.bd/public/storage/uploads/certificates/c25968533f5854710c66771baf43323f.jpg>

- CV Writing from MuktoPaath.

Credential URL:

<http://admin.muktopaath.gov.bd/public/storage/uploads/certificates/d4c39e093e407efd8c7782bfd5fd10a1.jpg>

- Spoken English from MuktoPaath.

Credential URL:

<http://admin.muktopaath.gov.bd/public/storage/uploads/certificates/98862c7644e16eada8b2aa9b78a3a7b7.jpg>

### **Research Experience:**

- Thesis: “IoT Based Smart Air pollution Monitoring system” Under the supervision of Dr. MOHAMMAD MAMUN ELAHI (2021-2022)
  - Creating a tool which will monitor the quality of air.
  - Identify different gases present in air.
- Action-Potential independent ion transportation and the effects of feedback in threshold spectrum. (2019-Present)
  - Ion transportation between central neurons, the threshold for spike initiation can depend on the stimulus and varies between cells and between recording sites in a given cell.
  - Identify the feedback in threshold spectrum.
- Becker - A Home Assistant Robot for Elderly and Handicapped People (2017-Present)
  - Creating a Home Assistant Robot.
  - Helpful for Handicapped People.
- WALL-E Mars Rover (2017)
  - Build a rover for Mars for University Rover Challenge.
  - Got a certificate of participation.

### **KEY PROJECTS:**

- Designed a Language Learning System  
Project link: [Dipanjan98/DSA-language-learning-system \(github.com\)](https://github.com/Dipanjan98/DSA-language-learning-system)
- Designed a Study Resources System (LMS)  
Project link: [Dipanjan98/DSA-Study-Resources-LMS- \(github.com\)](https://github.com/Dipanjan98/DSA-Study-Resources-LMS-)
- DESIGN A PD controller for a given RLC circuit to IMPROVE its SETTLING TIME  
Project link: <https://github.com/Dipanjan98/DESIGN-A-PD-controller-for-a-given-RLC-circuit-to-IMPROVE-it-s-SETTLING-TIME.git>
- Design of local minima/maxima circuit in cadence

Project link: <https://github.com/Dipanjan98/Design-of-local-minima-maxima-circuit-in-cadence.git>

- Microcontroller based boost converter to be use in PV system  
Project link: <https://github.com/Dipanjan98/Microcontroller-based-boost-converter-to-be-use-in-PV-system.git>
- Class room protector  
Project link: <https://github.com/Dipanjan98/Class-room-protector.git>
- Solving bus voltages and line flows using Newton Raphson Power flow method in MATLAB for a power system.  
Project link: <https://github.com/Dipanjan98/Solving-bus-voltages-and-line-flows-using-Newton-Raphson-Power-flow-method-in-MATLAB-for-a-power-sys.git>
- Modulation & Demodulation three message signal and run in a single .slx file as user demand.  
Project link: <https://github.com/Dipanjan98/Modulation-Demodulation-three-message-signal-and-run-in-a-single-slx-file-as-user-demand..git>
- Smart Home Management (IOT)  
Project link: <https://github.com/Dipanjan98/Smart-Home-Management.git>
- Classroom Monitoring with RFID  
Project link: [https://github.com/Dipanjan98/Classroom\\_Monitoring\\_with\\_RFID.git](https://github.com/Dipanjan98/Classroom_Monitoring_with_RFID.git)
- Made some Python Based Simple Games  
Project link: [Dipanjan98/Python-Based-Simple-Games \(github.com\)](https://github.com/Dipanjan98/Python-Based-Simple-Games)

### **Honors and Awards:**

- International Robots Got Talent by Techkriti, the annual Technical and Entrepreneurial Festival of IIT Kanpur.  
Issuer: IIT Kanpur (2017)  
-Performed well and stood 2nd runner up there.
- Group Presentation Competition by UIU.  
(2017)  
- I was leading my team there and managed to win with a trophy.

### **PARTICIPATION IN CONFERENCE AND SEMINAR:**

- “6<sup>th</sup> International Conference on the Development in Renewable Energy technology”, 28-30 December, 2021 sponsor by IEEE, organized by Dept. of EEE at UIU.
- Training on “Comprehensive Disaster Management Programme (CDMP-II)-Community Level Volunteer Training Programme”, 14-16 February, 2015 organized by Bangladesh Fire Service and Civil Defense, Dhaka, Bangladesh.

- Training on “Disaster Response Team”, 15-19 May, 2015 organized by Bangladesh Scout in Collaboration with ERF&UNDP, Dhaka, Bangladesh.
- Training on “Becoming the agent of peace ” 11 March, 2019 organized by Project Sampreeti ,United International University, Dhaka, Bangladesh.
- Training on “ Youth for a Peaceful Cyberspace ” 12 March, 2019 organized by Project Sampreeti, United International University, Dhaka, Bangladesh.
- Training on “ Establishing a Culture of Tolerance through Human Rights Education ” 23 March, 2019 organized by Project Sampreeti, United International University, Dhaka, Bangladesh.
- Seminar on “Global Vendor Management and Communication”, 13 April, 2019 organized by Kazi IT Center Ltd.(KITC), United International University, Dhaka, Bangladesh
- Training on “ Presentation Masterclass ” 12 May, 2019 organized by UIU JUNIOR ECONOMISTS FORUM, United International University, Dhaka, Bangladesh.
- Seminar on “ Career Boot Camp”, 13 March, 2019 organized by Kore Search ,United International University, Dhaka, Bangladesh.
- Seminar on “ Promoting a Peaceful and Tolerant Bangladesh”, 10April, 2019 organized by IDSS of UIU, United International University, Dhaka, Bangladesh.
- Seminar on “ International Youth Summit 2020”, 12 June, 2020 organized by John Faisandier, Chairperson, IYS 2020.

#### **VOLUNTARY WORK AND CO-CURRICULAR ACTIVITIES:**

- Worked as a Rover-Mate (RM) in Bangladesh Scout.
- Worked as a Volunteer in Bangladesh Fire Service and Civil Defense (FSCD).
- Worked as a Volunteer in “Youth Intervention for Peace and Harmony: Building Bridges for Prevention of Extremism and Radicalism in Bangladesh”, **Six month** Project of IDSS, UIU.
- Worked as a Volunteer in “SIAS” club in UIU.

#### **TECHNICAL SKILLS:**

- Cadence Design Systems
- TCAD
- OrCAD

- Programming Languages in C, Python, JaVa(OOP),JavaScript.
- MS Word, Excel, PowerPoint, OneNote, Project, Visio.
- Engineering Drawing in Auto Cad, Solid Works
- MatLab
- Pspice
- NI Multisim
- Proteus
- EAGLE
- Codeblocks
- Arduino
- Cisco Packet Tracer
- Photoshop
- PhP
- Node.js
- Laravel
- Wireshark
- Blender

#### **PERSONAL DETAILS:**

Fathers Name: Late Dilip Swarnaker

Mothers Name: Kalyani Swarnaker

Date of birth: 07/11/1998

Present Address: 4th floor, House: 96, 1st Lane, Malibagh, Dhaka-1219.

Permanent Address: ***Village:*** Dhopadanga, ***Post office:*** Sakhipur, ***P.S.:***Debhata, ***District:*** Satkhira-9430.

#### **LANGUAGE SKILL:**

- Bangla (Native)
- English (oral, writing and listening)
- Hindi (oral, listening)
- German(listening)
- Spanish(listening)

#### **REFERENCE:**

***Dr. Md. Iqbal Bahar Chowdhury***

Associate Professor

Dept. of EEE, UIU.

+880-1711-437332

Email: [ibchy@eee.uiu.ac.bd](mailto:ibchy@eee.uiu.ac.bd)

**MOHAMMAD MAMUN ELAHI**

Assistant Professor

Dept. of CSE, UIU.

+8801716328756

Email: [mmelahi@cse.uiu.ac.bd](mailto:mmelahi@cse.uiu.ac.bd)

***Khalid Md. Bahauddin***

Regional Focal Point- South and Central Asia (Disaster Risk Reduction)

United Nations Major Group for Children & Youth (UNMGCY).

United Nations Headquarters, 405 East 42nd Street

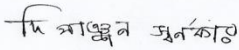
New York, NY, 10017, USA.

+8801765592715

E-mail: [khalid.bahauddin@childrenyouth.org](mailto:khalid.bahauddin@childrenyouth.org)/ [khalid.bahauddin@gmail.com](mailto:khalid.bahauddin@gmail.com)

**DECLARATION:**

I, the undersigned, certify that to best of my knowledge & belief, this resume correctly describe my qualifications & me. I understand any willful misstatement described here may lead to my disqualification.



DIPANJAN SWARNAKAR

Date: 06-05-22