

# AHMAD JARIF YEASIR

ADDRESS: House-23, Flat-B1, Lake Circus, Kalabagan,  
Dhaka

EMAIL: [ahmadjarif@iut-dhaka.edu](mailto:ahmadjarif@iut-dhaka.edu)

MOBILE: (+880)177-0616025

WEBSITE: <https://ahmad-jarif.github.io/CV/>

## EDUCATION

**Bachelor of Science in Electrical and Electronic Engineering** Jan. 2018 – Apr. 2022

*Islamic University of Technology (IUT)*

*Dhaka, Bangladesh*

CGPA: 3.78/4.00 Rank: 32/161 (Magna Cum Laude)

**Higher Secondary Certificate (HSC)**

May 2017

*Notre Dame College*

*Dhaka, Bangladesh*

GPA: 5.0/5.0, AWARDED WITH SCHOLARSHIP IN DHAKA BOARD

**Secondary School Certificate (SSC)**

April 2015

*Saint Joseph Higher Secondary School*

*Dhaka, Bangladesh*

GPA: 5.0/5.0, AWARDED WITH SCHOLARSHIP IN DHAKA BOARD

## CURRENT RESEARCH INTERESTS

- Machine Learning for Healthcare applications
- Deep Learning for Medical Imaging
- Photonic Crystal Fibers for Bio-sensing
- Applications of Optical Resonators in real-time sensing

## RESEARCH EXPERIENCE

**Islamic University of Technology (IUT)**

Apr. 2020 - Apr. 2022

Principal Investigator: *Prof. Dr. Mohammad Rakibul Islam, MBA*

### Study on SPR based PCF Sensor Design

- Studied on the scenario of AS WS sensitivity of sensors
- Analyzed how resonance wavelength peak shift affects the Confinement Loss and helps to detect analyte RI
- Studied the effect of optimisation of plasmonic material attributes for sensitivity changes of sensor

## PROJECTS

### ACADEMIC PROJECTS

- **Chaotic Grey Wolf Optimization Algorithm Implementation** Mar. 2020 – Aug. 2020  
*Grey Wolf Optimization Algorithm was taken as reference for optimization of tested benchmark functions. Chaos theory was added to improve the convergence rate ensuring a faster generation of convergence curve. Avoiding local minima was another fantastic feature for the CGWO Algorithm.*
- **Automated Diagnosis Of Diabetic Retinopathy using MATLAB** Sep. 2019 – Oct. 2019  
*Implemented the automated Diagnosis of Diabetic Retinopathy condition using MATLAB. Was able to detect the condition of the eye from the software following Image Processing Techniques.*
- **Base-5 Digital Calculator with ALU Memory Unit : Design Implementation** Apr. 2019 – May. 2019  
*Designed a Base-5 Calculator, which could carry out Addition, Subtraction, Multiplication and Division operations two single digit numbers.*

## PUBLICATIONS ([Google Scholar Profile](#))

### ARTICLES IN JOURNALS

- \* Mohammad Rakibul Islam, Md Moinul Islam Khan, Fariha Mehjabin, Jubair Alam Chowdhury, Mohibul Islam, **Ahmad Jarif Yeasir**, Jannat Ara Mim, Tajuddin Ahmed Nahid “**Design of a Dual Spider Shaped SPR based Refractometric Sensor with High Amplitude Sensitivity**”, 2022 11<sup>th</sup>, 2022. (*Under Review*)

## SKILLS SUMMARY

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### PROGRAMMING LANGUAGES

C, MATLAB, Python

### SIMULATION SOFTWARES

Proteus, SIMULINK, PSpice, COMSOL, CST Studio Suite, Ansoft Designer

### DOCUMENTATION AND VISUAL SOFTWARE TOOLS

LaTeX, MS Word, Adobe Essentials (Illustrator, Photoshop, Lightroom)

## RELEVANT COURSEWORK

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- |  |                             |                          |
|--|-----------------------------|--------------------------|
| • Data Communication and Networking I-II | • Communication Engineering | • Numerical Methods      |
| • Microwave Engineering                  | • Wireless Communication    | • Energy Conversion I-II |

## PROFESSIONAL EXPERIENCES

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### **Social Media Coordinator**

July 2020 – Mar. 2021

*Internet of Things (IoT) for Bangladesh*

*Dhaka, Bangladesh*

- Researched IoT related work, projects, and articles
- Researched audience preferences and discovered current trends in the field of technology
- Presented and promoted IoT in a way that will be desirable for the audience

## LEADERSHIP EXPERIENCE

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### **Chair, IEEE IUT Student Branch**

Feb. 2021 – Apr. 2022

*Islamic University of Technology*

*Gazipur, Bangladesh*

- Functional leadership of the entire organization
- Arranging annual fests, competitions different workshops
- Addressing and reporting operational transactions

## HONORS AND ACHIEVEMENTS

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- |  |                       |
|--|-----------------------|
| - OIC Scholarship - <b>Award for Admission Test Placement</b>            | Jan. 2018 - Apr. 2022 |
| - HSC Government Scholarship, Ministry of Education – <b>Dhaka board</b> | Apr. 2017 - Apr. 2021 |
| - SSC Government Scholarship, Ministry of Education – <b>Dhaka Board</b> | May 2015 - Apr. 2017  |

## PROFESSIONAL MEMBERSHIPS

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- |  |             |
|--|-------------|
| - Associate Member, Institute of Electrical and Electronics Engineers (IEEE) | 2018 - 2021 |
| - Student Member, IEEE Women in Engineering (WIE)                            | 2020 - 2021 |
| - Student Member, IEEE Computer Society (CS)                                 | 2020 - 2021 |
| - Student Member, IEEE Power and Energy Society (PES)                        | 2020 - 2021 |

## SYNERGIC ACTIVITIES / PROFESSIONAL AFFILIATIONS AS VOLUNTEER

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- |   |                       |
|---|-----------------------|
| - Brand Ambassador, <b>IEEE Region 10</b>                       | Nov. 2019 - Oct. 2020 |
| - Volunteer, <b>IEEE Bangladesh Section (BDS)</b>               | Apr. 2020 - Oct. 2020 |
| • <b>IEEE PES DAY 2020 Ambassador</b> , Apr. 2020 - July 2020   |                       |
| - Volunteer, <b>IEEE Computer Society Bangladesh Chapter</b>    | Apr. 2020 - Dec. 2020 |
| • <b>Publication Executive</b> , Apr. 2020 - Dec. 2020          |                       |
| - Volunteer, <b>IEEE Computer Society</b>                       | Apr. 2020 - May. 2020 |
| • <b>Scholarship Outreach Ambassador</b> , Apr. 2020 - May 2020 |                       |
| - Volunteer, <b>HULT Foundation</b>                             | Sep. 2019 - Nov. 2019 |
| - Campus Ambassador in <b>IEEE SPAVe 4.0, IEEE SPAW 2.0</b>     |                       |