

# MD SAMIUL ISLAM

Information and Communication Engineer | Data Analyst | Aircraft Communication Engineer | Big Data Analytics | Machine Learning | Deep Learning | Neural Network

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## 🕒 EXPERIENCE (TOTAL # 6 YEARS +)

### Research Assistant (Machine Learning Engineer)

🎓 University of Alberta

🌐 3vGeomatics (Partner Organization)

📅 Jan 2021 - Continue)

📍 Edmonton, Canada

### JR. CAMO Engineer (Data Analyst)

🌐 NOVOAIR Ltd.

📅 Jan 2016 - Dec 2020 (Including Study Leave from Sep-2017 to Jul-2019) 📍

Work at all times under the supervision of CAMO Engineer/Licensed Engineer -

- Analyzing Aircraft Data for Scheduling Aircraft Maintenance Tasks.
- Analysing Aircraft Technical Data for Measuring Corrective Actions.
- Analysing Aircraft Data for Taking Financial Decisions.
- Timely Scheduling Compliance of Aircraft Maintenance Programs.
- Monitoring Proper Compliance of AMJL & MEL.
- Scheduling for Accomplishment and Control Major Change (Modification)
- Ensuring Regulatory Responsibilities are being Followed by CAME

### Research Assistant (Machine Learning)

🎓 Wuhan National Laboratory of Optoelectronics (WNLO), HUST

📅 Sep 2018 - Jul 2019

📍 Wuhan, China

Conducting Research under the supervision of advisor -

- Gathering Valuable Information for Carrying out Research Activities
- Organizing Data in a Structured Way for Experimental Analysis
- Maintaining Collaborative Environment with the Team Members
- Protecting Confidential Data and Information with Utmost Care and Integrity
- Simulating Advanced Machine Learning & Big Data Analytics Methodologies

### Trainee Engineer (Electrical Communication)

🌐 Easy Fly Express Ltd

📅 Apr 2015 - Nov 2015

📍 Dhaka, Bangladesh

Work at all times under the supervision of Licensed Engineer -

- Checking Condition of Aircraft Communication & Navigation Equipment.
- Performing Scheduled and Unscheduled Inspection.
- Ensuring the Availability of the Parts in Store, GSE and Fire Equipment.
- Preparing the Engineering Planning Documents by following CAMO.
- Updating Technical Manuals, Operations Manual Regularly.

### Information Technology Trainer

🌐 New Horizons Computer Learning Centers

📅 Jun 2014 - Mar 2015

📍 Dhaka, Bangladesh

Microsoft Office Specialist Trainer -

- Conducting Training Classes by Presenting Company Specific Curriculum.
- Conducting Government & Private Training Classes.
- Evaluating Effectiveness of Training to Specific Job Applications.

## 📖 LIFE PHILOSOPHY

Every job must start with - "In the name of Allah, Most Gracious, Most Merciful"

## 🎓 EDUCATION

### PhD in Computing Science

🎓 University of Alberta  
(Global Ranked #115)

📅 Jan 2021 - Continue

📍 Edmonton, Alberta

### Master of Engineering in Electronics & Communication Engineering

🎓 Huazhong University of Science and Technology (Global Ranked #260)

📈 Result : 93.44% (Top in the Department)

★ Chinese Government Scholarship (MSc Fellowship)

📅 Sep 2017 - Jul 2019

📍 Wuhan, China

### Post Graduate Diploma in Computer Science and Engineering

🎓 National Institute of Technology

📅 Mar 2014 - Mar 2015

📍 Dhaka, Bangladesh

### BSc in Aeronautical Engineering (Electrical Communication)

🎓 Military Institute of Science and Technology

📅 Jan 2010 - Dec 2013

📍 Dhaka, Bangladesh

## 🌟 CERTIFICATION

✈️ ATR-72-500 Type-B (Aircraft Electrical System)  
HOP! Air France

💻 Windows Server 2012  
New Horizons Computer Learning

</> Python Programming  
Hi-Tech Park (SEP Scholarship)

👤 Human Performance Limitations  
Civil Aviation Authority, CAAB

📁 Comptia A+ (Computer Hardware)  
C++ Programming  
Microsoft Office Specialist (MOS)  
(Word, Excel, Powerpoint, Access)  
New Horizons Computer Learning

## PROJECTS

### CVD Prognosis using Big Data Analytics and Machine Learning

 Sep 2018 – Feb 2019  Wuhan, China

- Case Study of HealthCare Platform using Big Data & Machine Learning
- Heart Disease Detection Using Machine Learning and Deep Neural Network
- Diabetes and Cancer Detection using Machine Learning

### Development of Aircraft Technical Records and Manual

 May 2015 – Jul 2015  Dhaka, Bangladesh

- Developed Excel Based Software for Fully Automated Job Card Detection.
- Prepared All Maintenance Tasks as Per Requirement.
- Prepared Aircraft Maintenance Schedule for the Aircraft SAAB-340A

### Design & Modeling Radar Control System For Detecting Aircraft & Missile

 Sep 2013 – Nov 2013  Dhaka, Bangladesh

- Developed a Model to Improve Efficiency of Missile Detection Techniques
- Simulated the Model in MATLAB to Check the Performance.
- Developed Excel Based Software for Missile Detection and Aircraft Range Optimization.

## VOLUNTEERING

### English Tutor

 Student International Communication Association (SICA)

 Mar 2018 – Jun 2018  Wuhan, China

- Participating Different Cultural Programs with SICA
- Teaching English to the local SICA Member and Learn Chinese from Them
- Attending International Cultural Programs with SICA

### Social Service

 Bangladesh Scout

 2004 – 2007  Chittagong, Bangladesh

- Participating Different Cultural Programs with SICA
- Teaching English to the local SICA Member and Learn Chinese from Them
- Attending International Cultural Programs with SICA

## JOURNAL PUBLICATION

 **MD Samiul Islam**, Haider Muhamed Umran, Samir M. Umran, Mohammed Karim; "Intelligent Healthcare Platform : Cardiovascular Disease Risk Factors Prediction using Attention Module based LSTM"; IEEE Proceedings of ICAIBD; pp - 167-175, 2019, <https://doi.org/10.1109/ICAIBD.2019.8836998>

 **MD Samiul Islam**, Daizong Liu, Kewei Wang, Pan Zhou, Li Yu, Dapeng Wu, "A Case Study of HealthCare Platform using Big Data Analytics and Machine Learning", in ACM Proceedings of HPCCT, pp - 139-146, 2019, <https://doi.org/10.1145/3341069.3342980>

 Mohammed Karim, **MD Samiul Islam**, Anas Dheyab Aljoubory, Zhou Nuoya; "Deep Fully Convolutional Networks for Mitosis Detection"; ACM Proceedings of ICRC; pp - 84-89, 2019, <http://doi.acm.org/10.1145/3351180.3351213>

 Muhammad Bilal Khan, Sohaib Manzoor, Hira Manzoor, **MD Samiul Islam**; "A Collaborative Computation Offloading Scheme for 5G Heterogeneous Networks"; IEEE Proceedings of FIT; pp - 19-195, 2019, <https://doi.org/10.1109/FIT47737.2019.00014>

## STRENGTHS

- Hard-working
- Self-Motivated
- Information & Communication
- Aircraft Electrical System
- Aviation
- Aircraft Communication
- Aeronautics
- Aircraft Maintenance
- Data Analysis
- Big Data
- Microsoft Office
- Linux
- Latex
- MATLAB
- Machine Learning
- WEKA
- Deep Neural Network
- Research
- Computer Networking
- Programming
- Python

## HONOURS

 **China Government Scholarship(2017)**  
China Scholarship Council

 **Junior Talent-Pool Scholarship(2005)**  
Chittagong Education Board

## LANGUAGES

English   
Bangla   
Hindi   
Chinese 

## HOBBIES

-  Numismatics
-  Gardening
-  Online Shopping

## REFEREES

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