RafsanJani
Electrical Engineer

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Web & Git
rafsan.github.io
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Programming
C & C++ ★★★★★
MATLAB ★★★★★
Python ★★★★★
HTML,CSS ★★★★☆
JavaScript

OS Preference
GNU/Linux ★★★★★
Windows ★★★★☆
MacOS ★★★☆☆
Solaris ★★☆☆☆

Personal Skills
TeamPlayer ★★★★★
Curiosity ★★★★★
Determined ★★★★★
Connected ★★★★☆
Enthusiasmt ★★★★☆

Experience

10/16 - Now　**Quantum Gravity Researcher**　　　　Gulshan, Dhaka
Design and development of algorithms of Deep Learning. Integration of Quantum Gravity and Consciousness with Deep Learning

03/16 - 09/16　**UX & UI Designer**　　　　Procyon Inc.
Design and development of Web Applications, Web Solutions, monitoring and Evolution of User Experiences

01/13 - 03/16　**Freelance Developer & Problem Setter**　　Bangladesh Math Olympiad
Problem Setting, Test Taking and Test Paper Evaluation

Education

2016 - Now　**Studying M.Sc. in Theoretical Physics**　University of Dhaka, Bangladesh
Developing the first-principles of Quantum Gravity Theory.
Main Concentrations: Advanced Quantum Mechanics, Relativistic Quantum Field Theory, Statistical Mechanics, Particle Physics, Strong Interactions: Effective Field Theories of QCD.

2011 - 2016　**Bachelor's Degree in EEE**　Bangladesh University of Engg. & Tech., Dhaka
Main Concentrations: Physics and Mathematics, Programming, Power System, Electrical instruments, Telecommunication Systems, Digital and Analogical Electronics.
Title of the Thesis: *"Optimization of Gigabit Ethernet Passive Optical Network Using Advanced Polling and Dynamic Bandwidth Allocation".*
Thesis Supervisor - *Dr. Mohammad Faisal, Associate Professor, EEE, BUET*

2008 - 2010　**Higher Secondary Certificate**　Notre Dame College, Dhaka, Bangladesh
Group: Science.
Main subjects: Matematics, Physics, Chemistry and Biology.

Certifications

Dec 12, 2015　**Machine Learning**　　　　Coursera. Stanford Online
machine learning, datamining, and statistical pattern recognition
Course Instructor: Andrew Ng., Associate Professor, Stanford University

Achievements

48th Position in Rajshahi Board in SSC Examination

Runner Up in National Math Olympiad 2009

Champion in National Astronomy and Astrophysics Olympiad 2010

Skills

Circuit designing and CAD   Debugging, synthesizing and analysing electrical circuits. Very good Knowledge in the software packages like Orcad, P-Spice, Eagle, MATLAB, PSAF to simulate circuits

Basic PLC and Microcontrollers   Arduino, AVR and Basic PLC programming sufficient knowledge of Digital electronics and different programming languages for solving different problems.

Repairing, Troubleshooting & Monitoring
Repairing machines or systems using the needed tools, Determining causes of operating errors and deciding what to do about it and make sure a machine is working properly.

Notable Projects

Project 1   **INTELLIGENT POWER SHARING OF TRANSFORMERS WITH AUTO PROTECTION**

Project 2   **DIGITAL OSCILLOSCOPE USING ARDUINO (Micro controller Project)**

Project 3   **RUBIC's CUBE SOLVER using MATLAB**

Publications

H. A. Rafsan, A. H. Chowdhury
"A Research Paper Published in IJSRT, titling of 'A New Parallelization Strategy for the Solution of the Time-Dependent Three Dimensional Maxwell Equations"
International Journal of Science Research and Technology (IJSRT 2014), Mumbai, India, July 7-10, 2014

Referee

Dr. Abdul Hasib Chowdhury (Adviser)

Associate Professor in EEE
Department of Electrical & Electronic Engineering   **Phone:** 01711901568
Bangladesh University of Engineering and Technology   **E-mail:** hasib@eee.buet.ac.bd

Dr. Mohammad Faisal (Thesis Supervisor)

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