

Syed Razwanul Haque

10/D, Modushohid, Munshipara

Sylhet, Bangladesh

mobile no: +8801717-973140

E-mail: nabil@cruxbd.com

www.nabilbd.com



Career Objective

To obtain a position in the field of Research & Experimental work in UAV, ROV, IoT and Robotics. Excellent quality creative engineering project work is the main theme of my career.

Current Position

Founder & CEO, CRUX
www.cruxbd.com

Advisor, IoT Division
Bioforge Health System Ltd

CTO & Co-founder
Cybernetics Robo Academy

Experience

Assistant Professor, Dept. of Electrical & Electronic Engineering

Metropolitan University, Sylhet, Bangladesh.

(4 years - 26th April 2014 to 25th April 2018)

Team Leader

SUST Drone Team

(2 years - 2012 to 2014)

Research Assistant

Prof. Dr. Md. Zafar Iqbal (Former Bell Lab Scientist, US), Dept. of EEE, Shahjalal University of Science & Technology, Sylhet

(1 July 2013 to 4 April 2014)

Instructor

Innovation LAB, Metropolitan University

(2015 to 2018)

Product Development Manager

Oishi Electronics (Reg: 01036), Bangladesh

(2008 to 2013)

Others Experience

Project with Bangladesh Army; IoT & Robotics Training Instructor; Founder SUST Robotics, Aeronautics & Interfacing Research Group, Shahjalal University of Science & Technology, Bangladesh; Embedded System Designer, Nonlinear Optics LAB, Shahjalal University of Science & Technology, Bangladesh

Academic Information

M.S, Department of Physics

Shahjalal University Of Science and Technology (SUST)

CGPA 3.65 (in scale 4.0)

Thesis: An Embedded System to Conduct Hyper Raleigh Scattering

B.Sc. (Honours) Department of Physics

Shahjalal University Of Science and Technology (SUST)

CGPA 3.48 (in scale 4.0)

Higher Secondary Certificate Examination (H.S.C.)

Institute: Brindaban Govt. College, Habiganj.

Result: 4.90 (in scale 5.0)

Group: Science

Year: 2007

Secondary School certificate (S.S.C.)

Institute: Habiganj Govt High School, Habiganj.

Result: 5.00 (in scale 5.0)

Group: Science

Year: 2005

Skill

Product Design & Management , Analog & Digital Circuit, PIC, AVR, ARM Microcontroller, IoT, System Design, Aerodynamics, ROV, UAV, FPGA, Raspberry Pi, Arduino, Multi-rotor Aircraft, Team Leading, PCB Design, Robotics, Hardware Hacking, Android App Development, Cluster Computer, Antenna System, Nonlinear Optics, Image Processing, Simulation Software, Cloud Computing, Docker, Pix4D Mapper, etc.

Programming Language

C , C++, Java, Python, PHP, JavaScript, R, Assembly Language

Language Proficiency

Fluent in both written and spoken English apart from mother tongue.

Performance as Mentor

- 1) Champion, Yantra 5.0 , International Competition, Nepal.
- 2) Champion, Global Social Venture Competition, Thailand.
- 3) Champion , Kaizen SUST Project Competition, Project: ROV
- 4) Champion , Robotics, Inter University Tech Fiesta 2016 , KUET
- 5) Champion , Multicopter, Global Robotic Challenge 2016 by ESAB
- 6) Champion, Drone Racing, Techfest-2016, Independent University.
- 7) Champion ,Techfest-2016, Mesh Flare
- 8) Champion , Line follower robot challenge, Technovanza, North south University
- 9) 1st Runner up , CSE Carnival 2016, SUST
- 10) 6th place in Techkriti 2016, Multicopter Competition, IIT, Kanpur, India
- 11) 1st Runner up in Quad-Copter Challenge at Robolution 2016 Organized by MIST Robotics Club,Bangladesh
- 12) Champion, Techfest-2016, Regional Round, National Line Follower Competition
- 13) 1st & 2nd Runner Up, Line follower Robot Competition, Ahsanullah University.
- 14) Runner Up , Quadcopter Challenge, Robolution 2017, MIST, Bangladesh.
- 15) Runner Up, Fixed Wing Competition, Techkriti-2017 Bangladesh Qualification Round

Important Projects

- 1) Turbine Based Open Source Medical Ventilator
- 2) Low Cost High Flow Oxygen Therapy Machine
- 3) Ground Control Station Based Military and Civil Drone
- 4) Reading and Analysing TV channel data and Sending it to Remote Server with Arduino and GSM/GPRS shield (Shahjalal University project under Prof. Dr.Zafar Iqbal)
- 5) Modu Laser Controller for Nonlinear Optics experiment (Thesis work).
- 6) Embedded system for Optical Chopping(Thesis work)
- 7) Embedded system for Optical Polarizer (Thesis work)
- 8) Computer Controlled High Endurance(One Hour) Quadrotor Drone
- 9) Embedded system to determine Brewster Angle for Experimental Physics
- 10) High Altitude Hexacopter & Octocopter for E-commerce, Security, Surveillance & Aerial Photography.
- 11) Unmanned Submarine/ ROV
- 12) Digital Braille Reader for Visually Impaired People
- 13) Smart Obstacle Detector for Visually Impaired People
- 14) Weather Informer Drone

- 15) PIR Motion Sensor based security device which can call/sms/mms/gprs to ordinary mobile when security condition breaks (Commercial Quality).
- 16) Server Synchronized Electronics Voting Machine.
- 17) Iot, Mobile SMS based switching system.
- 18) Ship Tracking Device for BIWTA.
- 19) Robotic Arm, Hydraulic Robot.
- 20) Quartz Crystal Microbalance
- 21) Internet Based UAV/Drone Control System
- 22) Portable Smart Heart Beat Monitoring System(GPS,GPRS, Auto Calling Enabled)
- 23) Android App in Playstore : Robo Course, Arduino Serial Monitor, Electronics Plus, MasterPlanner,IC Dictionary, etc.(<https://play.google.com/store/apps/developer?id=CRUX>)
- 24) Military Purpose Robot for Grenade Disposal
- 25) Raspberry Pi Cluster Computer
- 26) Shadow Function Robot
- 27) STEM Education Product : Kids Electronics Kit
- 28) Designing a clone of Arduino UNO which appears in market as NORDUINO UNO

For More Information about my Work www.nabilbd.com, www.youtube.com/Nabilphysics, www.cruxbd.com, www.github.com/Nabilphysics

Publication

- 1) **“Finger Print Enabled Electronic Voting Machine with Enhanced Security”** , International Journal of Engineering & Technology, Vol. 5, No 6, June, 2015, ISSN 2049-3444
- 2) **“Low Cost Wireless Braille Reader”** , American Academic & Scholarly Research Journal , Vol. 7, No 6, Sept, 2015, ISSN 2162-321X (print) , ISSN 2162-3228 (online)
- 3) **“Drone Ground Control Station With Improved Security”**, IEEE I2CT, Pune , India. <https://ieeexplore.ieee.org/document/8226318/>

Personal Details

Name : Syed Razwanul Haque
 Nickname : Nabil
 Father’s Name : Syed Monirul Haque
 Mother’s Name : Ayesha Khatun
 Permanent Address : 24,Eidgah Road,Hobigonj-3300.
 Home Cell : +8801735869781
 Date of Birth : January 4, 1989.
 Religion : Islam
 Marital Status : Unmarried
 Nationality : Bangladeshi (by birth)
 Blood group : B+ (positive)

LinkedIn: bd.linkedin.com/in/nabilphysics

Youtube: www.youtube.com/Nabilphysics

Website: www.nabilbd.com

References

- 1. Dr. Md. Zafar Iqbal**
Professor(Retired)
Department of CSE
Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh
Cell: +8801711-339436
Email : mzi@sust.edu
- 2. Dr Yasmeen Haque**
Professor(PRL)
Department of PHYSICS
Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh
Cell: +8801711-339435
Email : yasmeen@sust.edu