

PERSONAL INFORMATION



RABI SHANKAR SHIL

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Sex Male | Date of birth 1994-12-17 | Citizenship Bangladesh

RESEARCH INTEREST

Fields of Research Interest

- Finite Element Analysis
- Turbulence
- Vortex Dynamics

WORK EXPERIENCE

(2019-01-16 – 2020-12-15) Junior Software Quality Assurance (SQA) Engineer (**Bit Mascot (Pvt.) Ltd**)

- Software quality assurance and quality control, technical documentation, test plans and test cases preparation, software unit and load testing, database, concurrency and API testing
- Programming and Simulation Skills: C, C++, Java, Python, LATEX, MATLAB, ANSYS

(2016-01-01 – 2019-01-01) Lecturer (**Udvash Academic and Admission Care**)

- Provided lecture on Physics (Vector Analysis, Newtonian Mechanics, Waves and Oscillation, Thermodynamics, Electricity and Magnetism, Optics and Astrophysics)
- Provided lecture on Mathematics (Differential and Integral Calculus, Geometry, Permutations and Combinations, Trigonometry, Statistics and Mechanics of Solid)
- Prepared concept books and exam scripts, evaluated exam scripts, shared knowledge with other teachers during teacher training sessions

(2018-10-19 – today) Mentor (**Bangladesh Association of Software and Information Services (BASIS)**)

- Mentor of NASA Space Apps Challenge, Bangladesh Event; Speaker of Campus Activation Program, BASIS SOFTEXPO
- Mentored 14 teams in NASA Space Apps Challenge, Bangladesh event

NETWORK ENGAGEMENT (APART FROM WORK EXPERIENCE)

(2018 – today) Bangladesh Innovation Forum

- Young Scientist Meet up 2019 – Speaker, Rocket Design Seminar
- Space Innovation Summit 2019 – Speaker, Spacecraft Design and Mission Planning Simulation Workshop

PREVIOUS SCHOLARSHIPS

(2012-02-29 – 2013-02-29) MIST Scholarship

- Ranked 31 (out of 10000 students) in MIST Admission Examination – 2011

EDUCATION AND TRAINING

(2012 – 2015) Bachelor of Science in Aeronautical Engineering
Military Institute of Science and Technology (MIST), Mirpur Cantonment, Dhaka -1216, Bangladesh

- Aerospace Vehicle Design, Space Engineering, Computational Structural Analysis, Heat Transfer, Material Science, Machine Design, Applied Aerodynamics & CFD, Computer Programming
- Obtained CGPA – 3.23 (Scale of 4.00)

(2014-12-06 – 2014-12-29) Industrial Training
Bangladesh Army Aviation Group, Dhaka – 1215, Bangladesh

- Received training on Euro-copter AS365 Dauphin (Utility Helicopter), Bell-205 (Trainer Helicopter), Bell-206 (Trainer Helicopter), Cessna-208B Grand Caravan, Mi-171sh and Cessna-152 (Trainer Aircraft)

UNDERGRADUATE THESIS, PROJECTS AND AIRCRAFT DESIGN

(2012 – 2015) Thesis

- Design and fabrication of TSVU (Tri-copter Shaped VTOL UAV)

Projects

- Amphibious RC aircraft – “Titan-1” (prototype) (Team Leader and worked on Hydrodynamic and Aerodynamic numerical methods, Hydrodynamic Drag and Aerodynamic Lift Calculation, Analysis of Hydrodynamic and Aerodynamic Forces, Mesh Convergence Analysis, Aircraft AUTOCAD design, flow simulation (CFD) over the wing)
- Short Take-off and Landing Aircraft (STOL) (prototype) – “Delta”, achieved 3rd position in “Fixed-wing Aircraft” category in National Aircraft Design Competition (NADC) (Team leader and worked on Analysis of wingtip vortices, wake and vortex street, Analysis of winglet impact on vortex)
- Advanced observation aircraft (prototype) for planetary research – “Andromeda”, achieved 19th position in Future Flight Design Competition (FFD), Istanbul, Turkey (Team leader and worked on SOLIDWORKS design, aerofoil selection, lift calculation, aircraft fabrication, flow simulation (CFD) over the aircraft, Micro Unmanned Aerial Vehicle design, fabrication and releasing mechanism)
- Vehicle Speed Tracker – Worked on Coding Complexity, Electrical Circuit Design, MATLAB simulation

Aircraft Design

- Designed a “Carrier-Borne Multirole Fighter Aircraft” based on specific requirements

ENGLISH PROFICIENCY

(2017-10-19 – 2022-10-19) GRE

- Score – 301 (Verbal Reasoning – 140, Quantitative Reasoning – 161, Analytical Writing – 3.0)

(2020-02-08 – 2022-02-08) TOEFL

- Score – 97 (Reading – 22, Listening – 28, Speaking – 23, Writing – 24)