

Mushfiqur Rahman Saad

Wireless Research, UKM

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Education

Universiti Kebangsaan Malaysia (UKM)

2022-2025

MSc (Research) EEE,

Department of Electrical, Electronic & Systems Engineering,

Supervisors: Assoc. Prof. Dr. Nor Fadzilah Abdullah, Dr. Asma ' Binti Abu Samah, Prof. Ir Rosdiadee Nordin

Thesis: Plastic Waste Classification Using Web-Edge Artificial Intelligence Approach

Independent University Bangladesh (IUB)

2015-2020

BSc EEE, Department of Electrical & Electronic Engineering,

Supervisors: Dr. Md. Abdur Razzak

Work Experience

GRA Wireless Research@UKM

2022-2024

Key Activities:

1. Research and Development of Machine Learning Models for Plastic Waste Auditing
2. Research and Development of a Low-Cost Volume Estimator for Plastic Waste

Founder, Wizkit

2016-Present

Key Activities:

1. Design Thinking and Rapid Prototyping of high impact projects in Healthcare, Disability Tech, Sustainable Tech and Education Tech
2. Create education kits for Bangladesh National Curriculum to help with hands on STEM teaching and learning activities
3. Generate open-source engineering designs and documentations to promote the democratization of science in Bangladesh
4. Conduct courses, workshops and seminars to upskill students in STEM
5. Founded, and currently managing the country's largest open-source AI and CV community

Intern R&D Telenor Health

2022-2024

Key Activities:

1. R&D on healthcare system in Bangladesh, especially on out-of-pocket expenses.
2. Develop Customer Service Technology and Operations' process protocols

Co-Founder Project Be

2013-2016

Key Activities:

1. Developed gamified experiences around social projects, mobilizing youth participation in projects relevant to education, environment, healthcare, mental health and gender based violence.
 2. Designed and built the first ever floating treatment wetland in Bangladesh
 3. Spring boarded multiple youth initiatives around various social causes
 4. Conducted workshops on social business and design thinking for community engagement initiatives.
 5. Organized exhibitions to showcase community art and science
 6. Worked with Female Empowerment Movement (FEM) to teach students in townships how to use DIY fire alarms.
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Publications

Intelligent Plastic Brand Audit for Extended Producer Responsibility Initiatives Using Machine Learning Model, Jurnal Teknologi (Pending Publication)

M. M. Rahman Saad and M. A. Razzak, “**A Cost Effective UV Robot for Disinfecting Hospital and Factory Spaces for Covid-19 and Other Communicable Diseases**” 2021 IEEE World AI IoT Congress (AIIoT), Seattle, WA, USA, 2021, pp. 0373-0378, doi: 10.1109/AIIoT52608.2021.9454191.

Recognition and Awards

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| 2024 | Invited Speaker for Wireless Research@UKM Upskilling Seminar on WebApp Development with Python |
| 2023 | Best Case Study presentation at Joint ICTP-IAEA Advanced School Workshop on Machine Learning in Citizen Science, Trieste, Italy |
| 2022 | Invited Speaker for Wireless Research@UKM Upskilling Seminar on Introduction to 3D Printing |
| 2021 | Winner Design for Life Emergency Medical Ventilator Competition during COVID-19 |
| 2018 | Acknowledged for running one of the top 7 education transformation initiatives in the world. |
| 2018 | Winner – Hult Prize 2018 |
| 2018 | Runner-up Green Genius 2018 |
| 2016 | Khoj, Finalist, mBillionth award, in Government and Citizen Engagement App Category |
| 2016 | Runner up- USAID Biodiversity Film Competition |
| 2016 | Winner Young Environmentalist 2016 |
| 2016 | Winner, Entrepreneur of the Year, YGAP Bangladesh (Formerly Spark* International) |

Press

- Wizkit: Making science simple and apprehensible - <https://www.tbsnews.net/features/panorama/wizkit-making-science-simple-and-apprehensible-444538>
- Fighting the pandemic with STEM-based solutions - <https://www.thedailystar.net/star-youth/news/fighting-the-pandemic-stem-based-solutions-1939753>
- Seminar on 'Artificial Intelligence' held at IUB - <http://beta.iub.edu.bd/articles/index/993/Seminar-on-Artificial-Intelligence-held-at-IUB>
- Founders Resiliency Stories: Wizkit - <https://ygap.org/wizkit/>
- Green Geniuses awarded for generating outstanding ideas - <http://beta.iub.edu.bd/articles/index/1020/Green-Geniuses-awarded-for-generating-outstanding-ideas>
- A-Level students invent petrol bomb extinguisher - <https://www.dhakatribune.com/bangladesh/bangladesh-others/96407/a-level-students-invent-petrol-bomb-extinguisher>
- PrivaShe Hackathon 2020 by PrivaC - <https://www.dhakatribune.com/feature/226079/privashe-hackathon-2020-by-privac>