

# MD TARIQUL ISLAM

Portfolio: [www.linkedin.com/in/tariqul4bd](https://www.linkedin.com/in/tariqul4bd) | [www.tariqul4bd.com](http://www.tariqul4bd.com)

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## PROFILE

As a dedicated electrical and electronic engineer, I strive to leverage my expertise in power systems, advanced technologies, and collaborative innovation to contribute effectively in dynamic and challenging environments. With a strong academic foundation and practical experience, I am committed to continuous learning and teamwork. My goal is to secure a position in a leading technology company, where I can drive advancements and apply my skills to cutting-edge projects. Additionally, I am organizing about supporting young researchers and fostering scientific communities, exemplified by founding "[The Young Scientist Network of Bangladesh](#)" and managing the "[জ্যোতির্বিজ্ঞান ও মহাকাশ /Astronomy and Space](#)" Facebook group which is the second largest Astronomy Group in Bangladesh. If you would like to read visit my portfolio [www.tariqul4bd.com](http://www.tariqul4bd.com).

## EDUCATION SUMMARY

Oct, 2022 - Oct, 2023	University of Essex, M.Sc. in Electronic Engineering	Colchester, UK
Passed with merit (60% Marks) Degree Awarded 4 <sup>th</sup> Dec 2023	<b>Program Highlights:</b> <ul style="list-style-type: none"><li>Completed a comprehensive Master's program in Electronic Engineering at the esteemed University of Essex. Engaged in a diverse range of modules, covering subjects such as signal theory, programming, systems integration, and data science.</li><li>Successfully executed a challenging thesis project, "<b>Real-Time Moving Object Detection from Soccer Video Using the YOLOv8 Deep Learning</b>," showcasing expertise in advanced technologies and applications. Demonstrated research and analytical skills through the MSc Project and Dissertation.</li><li>Applied theoretical knowledge gained through coursework in practical settings, including hands-on laboratory work and real-world projects.</li><li>Developed proficiency in high-level logic design, programming embedded systems, and decision-making processes in the context of data science. Acquired a well-rounded skill set in electronic engineering, combining theoretical understanding with practical applications.</li></ul>	
Jan, 2017 - Aug, 2021	Daffodil International University, B.Sc. in Electrical and Electronic Engineering	Dhaka, Bangladesh
CGPA 3.05 Out of 4.00. Degree Awarded 21 <sup>st</sup> Sept 2021	<ul style="list-style-type: none"><li>Successfully completed a Bachelor's program in Electrical and Electronic Engineering at Daffodil International University. Gained in-depth knowledge in essential subjects including electrical circuits, digital electronics, control systems, and communication engineering.</li><li>Demonstrated proficiency in microprocessors and microcontrollers, power systems, and digital signal processing.</li><li>Successfully executed a challenging thesis project, "<b>Design and Hardware Implementation of E-Bike with Smart Features and Automatic Security Lock</b>"</li><li>Applied theoretical concepts in practical settings through hands-on projects and laboratory work. Specialized in areas such as power electronics, renewable energy systems, and electronic instrumentation and measurement. And successfully managed and executed engineering projects, showcasing project management skills.</li></ul>	

## PUBLICATIONS AND CONFERENCES

Journal	1. Islam, R., Islam, M., & Sarkar, M. R. (2022). "Optical Analysis of Metal Oxide Borosilicate ( $x\text{CaO}(1-x-z)\text{SiO}_2z\text{B}_2\text{O}_3$ ) glasses with varying concentrations of boric oxide ( $\text{B}_2\text{O}_3$ )". <i>Asian Journal for Convergence in Technology (AJCT)</i> ISSN -2350-1146, 8(2), 18-23. <a href="https://doi.org/10.33130/AJCT.2022v08i02.005">https://doi.org/10.33130/AJCT.2022v08i02.005</a>
	2. Islam, M., Islam, R., & Sarkar, M. R. (2022). <i>Structure of Soil Moisture Sensing Electronic Irrigation System</i> . <i>Asian Journal for Convergence in Technology (AJCT)</i> ISSN -2350-1146, 8(1), 12-16. <a href="https://doi.org/10.33130/AJCT.2022v08i01.002">https://doi.org/10.33130/AJCT.2022v08i01.002</a>
Conference	3. Md. Siddiquir Rahman, Md. Tariqul Islam, Md. Delwar Hossen & Md. Abdur Rashid, "Electric Bike with Smart Features and Automatic Security Lock" <i>International Conference 2021, ICITE2021</i> , p-22. <a href="https://icite.psite.org/project/book">https://icite.psite.org/project/book</a>
Social Conference	4. Md Tariqul Islam, "Sustainable Urbanization and Digital Innovations": Perspectives from ASEM Youth ASEFSU23 Conference 2022, P:49-51 <a href="https://asef.org/news/asefsu23-publication-sustainable-urbanisation-and-digital-innovations/">https://asef.org/news/asefsu23-publication-sustainable-urbanisation-and-digital-innovations/</a>
	5. Md. Tariqul Islam. "Human Rights Violation-Syria Case" Proposition paper of Croatia; Committee: United Nations Human Rights council -AYIMUN 2022 at Asia Youth International Model United Nations.

## EMPLOYMENT HISTORY

Oct, 2022 – Present	Electrical Engineer at All Landlord Certificates Ltd.	City of London
Full-Time	<ul style="list-style-type: none"><li>• <b>Fire Alarm Installing:</b> Led the installation, maintenance, and assessment of fire alarm systems in various commercial and residential settings. Conducted thorough fire risk assessments to identify potential hazards and recommended safety measures. Performed detailed evaluations of existing fire alarm systems, ensuring compliance with safety regulations, identifying areas for improvement, and implementing necessary upgrades to guarantee optimal functionality.</li><li>• <b>Expert:</b> in upgrading and installing fuse boards and consumer units to improve electrical safety and meet current standards. Conducted assessments to recommend solutions for clients and issued EICRs (Electrical Installation Condition Reports) for residential and commercial properties, identifying hazards and ensuring safety compliance. Installed and maintained emergency lighting systems for reliable illumination during power outages, performing regular testing. Conducted PAT (Portable Appliance Testing) on diverse electrical appliances, delivering detailed safety reports and actionable recommendations. Specialized in installing electric car charging points, catering to the growing demand for sustainable transportation solutions.</li><li>• <b>Rewiring:</b> Led house rewiring projects, ensuring the installation of safe and efficient electrical systems. Coordinated with clients to understand specific requirements and provided customized solutions.</li></ul>	
Oct, 2022 – Jun, 2023	Research Assistance at Daffodil International University	Dhaka, Bangladesh
	<ul style="list-style-type: none"><li>• <i>Artificial intelligence minds using microcontrollers, and all sensors have been controlled by Arduino IOT based device. Machine learning language used for controlling system C, C++.</i> <i>Innovative smart locker that works like an automatic security locker</i></li></ul>	

## MICRO-CREDENTIALS AND SHORT COURSES

Learning Academy (UK) Ltd	5 <sup>th</sup> July 2023
- <a href="#">City &amp; Guilds Level 3 Requirements for Electrical Installation 18<sup>th</sup> Edition</a> (BS 7671:2018)	
University College Cork, Ireland, UK	1 <sup>st</sup> Sep 2021 – 30 <sup>th</sup> Nov 2021
- Global Leadership and Sustainable Urbanization, CPD Certificate	
- (Micro-Credentials, 10 Credits)	
Universiti Sains Islam Malaysia (USIM), Malaysia	17 <sup>th</sup> Jan 2019
- Global Entrepreneurship Summer Camp Program 2019	
- (Micro-Credentials, 03 Credits)	

## AFFILIATION AND CERTIFICATIONS

- The Institute of Engineering and Technology.UK (IET) Student Membership ID#1101139746
- The Institute of Electrical and Electronics Engineers (IEEE). Student Membership ID #98127154
- Institution of Diploma Engineers (IDEB), Bangladesh. Engineering Membership NO #61927
- Member of American Canter, US Embassy Dhaka. Student Membership ID #112877

## INTERNSHIPS

Sep, 2015 – Dec, 2015	Industrial Training, Bangladesh Power Development Board (BPDB)	Dhaka, Bangladesh
	<ul style="list-style-type: none"><li>• Successfully built and maintained transformers and generators, ensuring optimal performance.</li><li>• Executed transformer oil replacement procedures, extending the lifespan of power equipment.</li><li>• Designed and implemented effective power factor correction strategies, improving system efficiency.</li><li>• Identified and resolved faults in transmission lines, minimizing downtime and ensuring reliable power distribution.</li><li>• Developed and implemented connection diagrams for various transformer configurations.</li><li>• Contributed to the successful design and operation of both auto transformers and standard transformers.</li><li>• Applied expertise in control systems to enhance the overall performance of power systems.</li></ul>	

## REFERENCES

[Prof Dongbing Gu](#)  
Professor,  
School of Computer Science and Electronic  
Engineering (CSEE) at University of Essex,  
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