TASHFIA TAHIAT

+44 7475595345 ⋄ ttahiat@gmail.com

www.linkedin.com/in/tashfia-tahiat-3449b2214

OBJECTIVE

Seeking to become a part of a dynamic educational institution that places a high value on fostering personal and professional growth. I am wholeheartedly dedicated to leveraging my robust analytical and research abilities to drive the development of groundbreaking emerging technologies.

SKILLS

- Programming Libraries: Python (Numpy, Pandas, SciPy, Matplotlib, TensorFlow, PyTorch), C++/C, Verilog, VHDL, Java, HTML, CSS, MATLAB /Simulink, ROS.

- Tools Software: Microsoft Office, SQL Database, CAD Design, Circuit Simulation, Firebase

- Technical Abilities: Control System, Digital Logic Design, Real-time Operation, IoT (Internet of Things), Object-Oriented Programming (OOP)

- Languages: Fluent in English and native proficiency in Bengali

- Soft Skills: Effective Communication, Team Collaboration, Problem Solving, Critical Thinking, Project Management, Technical Reporting

EDUCATION

Masters in Robotics and Autonomous Systems   August 2023
University of Bath

Including units of Robotics Software, Embedded Systems, Artificial Intelligence, and Electronic Communication Systems.

Current Projects:

- Leveraging TensorFlow and Keras Pipeline to conduct Machine Learning-driven EMG signal processing and classification, tailored for prosthetic applications. (Dissertation Project)

- Autonomous navigation on ROSBOT on Gazebo, Ubuntu Platform

- Conceptual Design of Moon Rover(Assigned as Project Manager)

- Development of AgriNet, leveraging the ARM embedded LPC1768 microcontroller (Assigned as Team Leader)

- Utilizing CoppeliaSim for precision fuel rod transfer via the Niryo-1 robotic arm.

Bachelor Degree in Electrical and Electronic Engineering   Sept 2017 - June 2021
BRAC University

Academic Projects:

- Designing a security lock prototype using FSM, in VHDL programming via Xilinx and Quartus tools

- Developing occupancy tracking with ATmega32 microcontroller through CodeVisionAVR and Proteus simulation

A level   2015-2017
International Turkish Hope School
Including Mathematics, Physics and Chemistry.

O level   2015
International Turkish Hope School

Including A*s in Pure Mathematics, Physics, Chemistry and, Human Biology.

EXPERIENCE

Electrical and Instrumentation Engineer   Sept 2021 - Feb 2022
Sterling Multi Technologies LTD.   *Dhaka*

Engineers mainly lead in designing, developing, installation, managing and maintaining equipments which are used to monitor and control engineering systems, machinery and process. In addition to which is assigned by the authority time to time. Associated with others working as a team. Then, communicating and presenting the required aim for the client manufacturers.

Student Tutor   Dec 2019 - Sept 2021
Brac University   *Dhaka*

Student tutors help students improve their academic skills. This part-time job's main goal is to assist struggling students by creating a study plan and double-checking their quiz copies and assignments. Developing solution book using analytical abilities. The necessitates exceptional interpersonal and communication abilities. The assigned courses were VLSI, Digital System Design and Microprocessor.

ACHIEVEMENTS

- Deans Award Scholarship in University of Bath [2022]

- Interviewer for *The Times* Final Year Student Survey [2023]

- Awarded a 10% Scholarship Based on Academic Results in University, in the form of a fee waiver [Oct 2018] - [Sept 2021]

- Acquired 7.5 in IELTS [June 2021]

- Enlisted in Vice Chancellors' List for Academic Performance [Sept 2019] – [Sept 2020]

- Completed 10 courses in Coursera [Including Using Python to Access Web Data, HTML, CSS and JavaScript for Web Developers, Using Database with Python]

- Completed Become a Python Developer Learning Path in Linkedin Learning [Including SQL Essential Learning, Object-Oriented Programming, Flutter]

- Daily Star Award for O level results [2015]

PUBLICATIONS

Inexpensive Voice Assisted Smart Eyewear for Visually Impaired Persons in Context of Bangladesh [Nov 2021] M. M. K. Peyal, Q. M. A. U. Haque, T. Tahiat, S. Habib, A. Noor and A. A. M. Azad, "Inexpensive Voice Assisted Smart Eyewear for Visually Impaired Persons in Context of Bangladesh," 2021 IEEE Global Humanitarian Technology Conference (GHTC), pp. 43-50, doi: 10.1109/GHTC53159.2021.9612468.

IoT Based Cost Effective Car Parking Management for Urban Area [Nov 2021] M. M. K. Peyal, A. Barman, T. Tahiat, Q. M. A. Ul Haque, A. Bal and S. Ahmed, "IoT Based Cost Effective Car Parking Management for Urban Area," 2021 4th International Symposium on Agents, Multi-Agent Systems and Robotics (ISAMSR), 2021, pp. 70-75, doi: 10.1109/ISAMSR53229.2021.9567826.

Lung Cancer Detection Using Ensemble Technique of CNN [Jan 2023] Z.-E.-N. Akhand, A. I. Rahman, A. Sarda, M. Z. Fahim, L. T. Tushi, K. Azad, and H. T. Tahiat, "Lung cancer detection using ensemble technique of CNN," 2023 Proceedings of International Conference on Information and Communication Technology for Development, pp. 497–507., doi:10.1007/978-981-19-7528-8_39.

REFERENCES

- Dr.Dingguo Zhang (Lecturer, University of Bath)