Kazi Fahad Quddus

(Permanent Resident, eligible to work)
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Objective Statement

PhD candidate in Earth and Atmospheric Sciences with a strong background in air quality research, pollution control, and environmental engineering. Seeking to apply expertise in atmospheric modeling (WRF, GEOS-Chem, WRF-GC), air pollution monitoring, and emission control technologies to support regulatory agencies and companies in developing innovative solutions for mitigating air pollution and improving environmental health.

Education

University of Houston, Houston, TX
PhD in Earth and Atmospheric Sciences | 01/2024 – Ongoing

Griffith University, Brisbane, Australia
Master of Professional Engineering (Environmental Engineering) | 07/2023

Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
Bachelor of Science in Civil Engineering | 03/2012

Work Experience

Teaching Assistant
University of Houston, main campus, Houston | 01/2024 – continuing

Sub Divisional Engineer
Local Government Engineering Department, Bangladesh | 03/2015 – 06/2021

Structural Engineer
ZMT Estate Pvt Ltd, Bangladesh | 04/2012 – 02/2015

Skills

- WRF, GEOS-Chem, WRF-GC, QGIS, Machine Learning, Deep Learning, Data Analysis, Python, R-Programming
- I was associated with a project work on Air pollution monitoring of a **circular stack** using the **EPA method**, and Air pollution control and design of a treatment device for

a power plant using a **Cyclone separator** and **Filter bag**. (additional **Settling Chamber, ESP**),

- Moreover, I know Monitoring and control air contaminants of a particulate nature, Measurement principles, control methods, devices, and Gaseous emission control techniques (absorption, adsorption, incineration), Technologies for controlling emissions of gaseous pollutants, Particulate emission control techniques; inertial separators and cyclones, ESPs and filters, wet collection technologies, Air pollution control in industry, Advanced technologies; closed cycles. Environmentally friendly technologies
- Environmental management concept, Environmental management systems ISO14001:2015, Environmental impact assessment ISO14040:2006/AMD 1:2020, Air emissions and water contamination, Control of waste and land contamination

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Certifications and Training

- *Institute of Engineers, Bangladesh License (IEB No: 36030) | 2012*
- *Engineers Australia License (EA No: 8376109) | 2020*
- Tailor-Made Training in Urban Drainage Planning and Management (IHE Delft, UNESCO) | 2019
- Planning and Prioritization of Rural Roads in Bangladesh | 2018
- E-Module on Code of Ethics (USAID & UNOPS) | 2017
- Certifications in Quality Control, Public Procurement, and Construction Management (LGED) | 2015-2019
- Python, R- programming by HPE-DSI

Research and Academic Projects

- *Research on Dust Activities from Wind Erosion and Bushfire*: Developed early warning systems for pollutant pathways during fire seasons.
- Additional coursework in Air Quality Monitoring and Control Systems achieving 98% marks.

Awards and Honors

- Griffith Award for Academic Excellence 2022
- International Student Scholarship (Griffith University, Australia)
