

A Ahsan (HABIB)

Tech-Driven Operations Leader
Aspiring Data Engineer — ML, Data Science,
Python, SQL, Cloud, BI, RDBMS

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in habib-aahsan
🌐 Habib-AAhsan

A man is not finished when he is defeated
He is finished when he quits

Professional Summary

Versatile and tech-driven professional with several years of experience in operations management, project management, and business operations, primarily in the power and energy sector. Served as COO, leading initiatives in supply chain, ERP systems, operational excellence, and ISO compliance. Early career focused on electromechanical systems, automation, and environmental consulting with global exposure.

Currently pursuing an MSc in Data Science to deepen my impact in analytics and cybersecurity. Strong background in Python, MATLAB, C++, SQL, Tableau, and SAP Analytics Cloud, with hands-on Linux experience. Experienced in teaching Python, MATLAB, Excel Analytics, C++, and Numerical Analysis. Seeking roles that merge leadership, technology, and analytics in solving data-driven challenges.

Education

- Ongoing **MSc in Computer Science & IT (DS)**, *Universiti Malaya*, KL, Malaysia
Focus: Machine Learning, Business Analytics, Cybersecurity
- 2004 **MSc in MecE (MEMS)**, *University of Alberta*, Edmonton, Canada
Research: Micro-sensor Development for Measuring Humidity in Airways
- 1999 **BSc in Mechanical Engineering (Control Systems)**, *BUET*, Dhaka, Bangladesh
Project: Mechatronics – Automatic Feedback Control System

Technical Skills

- Languages Python, SQL, MATLAB, R, C++, Visual Basic, PL/SQL, FORTRAN77, Bash
- Databases Oracle, MySQL, SQLite, MS Access, Excel (VBA)
- Analytics/BI SAP Analytics Cloud, Tableau, Advanced Excel
- Data Tools Jupyter Notebook, Google Colab, Anaconda, Kaggle
- DevToolsIDEs VS Code, L^AT_EX, MS Project
- Ver Control Git, GitHub
- CI/CD Jenkins (basic), GitHub Actions (learning)
- Cont_Deploy [Containers & Deployment] Docker, Kubernetes (introductory)
- MonitorTools Prometheus (familiar), Grafana (exploring)
- Cloud AWS (S3, EC2 – basic), GCP (BigQuery – beginner)
- OPs SUSE Linux, Red Hat Linux, Windows, macOS

Crypto Tools CrypTool, OpenSSL, GPG, Wireshark
 CAD & CAE AutoCAD 3D, ANSYS, FEMLAB
 Creative CorelDraw, Photoshop, Illustrator, GIMP

Business Skills & Other Competencies

Focus Areas Operations & Project Management, Engineering (ME, EEE), PMP, SCM, ERP
 Standards ISO 9001, 14001, 2000, QMS, EMS, OHSAS, IEC, ASME, ASHRAE
 Affiliations Member – IEB, IEEE, ASME, AIAA USA
 Domains HV/LV Power, Automation, Electromechanical – HVAC
 Exposure Canada, Germany, Thailand, Netherlands, India, Singapore, Malaysia, China, Japan
 Recognitions NSERC Canada, IEEE Xplore, ResearchGate Scholar

Professional Roles

Operations **Head of Operations / COO**
 ○ Oversaw operations, process improvement, and business sustainability
 ○ Financial planning using KPIs: IS, BS, ROI, NPV, COGS, OPEX
 ○ Led crisis management, SOP standardization, strategic operations
 ○ Acted as project leader, financial controller, adviser to board
 Consultancy **Consultant**
 ○ Guided strategic planning, tech adoption, and analytics-based decisions
 ○ Introduced ERP systems and coached IT & business teams
 ○ Represented company in stakeholder/client meetings
 ○ Advised on new business unit formation and crisis mitigation

Professional Experience

2023–2024 **Consultant & Chief Operations Officer**, *Pick-Power & Engineering Co.*
 2019–2023 **Head of Operational Excellence**, *EnergyPac Engineering Ltd.*
 2016–2019 **Head of Operations**, *Pick-Power & Engineering Co.*
 2014–2016 **Operations Head**, *RECL / i-Energy Engineering Services Ltd.*
 2004–2013 **Engineering Manager / Segment Head**, *Rahimafrooz Group*
 1999–2003 **Engineer & NSERC Researcher**, *Univ of Alberta, TCEL, Rahimafrooz Group*
 2001–2022 **Instructor / Lecturer (P/T)**, *UofA, SMUCT, Academic & Corporate Trainings*

Teaching & Training

Subjects Python, C++, MATLAB, Numerical Analysis, Excel Analytics, Physics, Math
 Audience High school, university, and professionals (academic and corporate)

Publications & Articles

2022 Digital Ambient Noise Monitoring Proposal – DOE Bangladesh
 2018 Souvenir Article – World Environment Day – DOE Bangladesh
 2016 Noise Attenuation System Modeling – ICSV23, Greece
 2003 Humidity Micro-sensor – IEEE MEMS/NANO, Canada

- 2002 Multi-sensor Micro-probe – Alberta Biomedical Engineering Conf.
2000 Auto-feedback Control System – APM '99, IEB Bangladesh

Certifications & Professional Training

- Malaysia SAP Analytics Cloud, Tableau, Cryptography Tools
USA CompTIA Security+ (in progress), Google ML Course w/TensorFlow (in progress)
Canada Micro-fabrication (NINT); MATLAB, ANSYS, FEMLAB, CATIA
USA Circuits & Electronics – MITx (edX)
Germany Urban Noise Mapping – SoundPLAN
Thailand Environmental Pollution Control – GeoNoise
Sweden Machine Sound & Vibration Control – KTH
Japan Energy Management – APO
Switzerland ISO 9001, ISO 14000, OH&S – ISO
Bangladesh PMP, SCM, C++, Oracle SQL, AutoCAD, Behavioral Training

Languages

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|---------|--------|--------|-------------------|
| English | Fluent | French | Basic Proficiency |
| Bangla | Fluent | Malay | Basic Proficiency |

Honors & Awards

- **NSERC Canada** – Fully Funded Research Grant (2002–2004)
- **BUET** – Technical Scholarship (1994–1999)
- **Dhaka Board** – Academic Distinction Scholarship (1991–1992)
- **DOE Bangladesh** – Chief Proponent (DANMS Project, 2022), WED Souvenir Writer (2018), Symposium Speaker (2016)

References

Available upon request.



Ahsan AHM Habib
Kuala Lumpur, Malaysia
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