

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 over 15 years of experience in business operations, project management, and systems automation, 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 systems automation, and projects management with global exposure.

Currently on a postgrad research 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 **Postgrad Researcher, Computer Sc & IT (DS)**, *Universiti Malaya*, KL, MY
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

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| 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 |
| DevTools/IDEs | VS Code, L ^A T _E X, 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*
2010–to date **Country Rep of BD & Consultant**, *SoundPLAN GmbH, GeoNoise, Thailand*

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

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 on behalf of SoundPLAN GmbH (2016)
- **International Conferences - First Author, Presenter** at A) ICSV23 (Greece, 2016), B) IEEE MEMS/NANO (Canada, 2003), C) Alberta Biomedical Engineering Conf. (Canada, 2002), D) APM'99 – IEB (Bangladesh, 2000)

References

Available upon request.



Ahsan AHM Habib
Kuala Lumpur, Malaysia
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