A Ahsan (HABIB)

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Summary — I am a professional with unique analytical and problem solving skills who applied them in different phases of the career: Business/Data Analytics, Operation Management, Business Strategic Management System and Project Management, Engineering & Scientific Research, Energy Engineering Management, Environmental Management and mitigation. I also have academic background of a novel research (MEMS) based MSc in Mechanical Engineering from University of Alberta, CANADA

Status	Consultant & COO with a Pvt Company	**Affiliation**	Fellow (IEB), IEEE, ASME, AIAA USA
Rep Of	SoundPLAN GmbH, GeoNoise Thailand	**Pro.Certified**	IEEE Xplore, Google Scholar
Qualif	MSc MecE, University of Alberta CANADA, BSc ME BUET	**Nationalities**	Canadaian German Thai Netherlands
		worked with	Indian Singaporean Chinese Malaysian

Skills

Areas	Bz Ops, PMP, BzDev-SMS,IT,SCM,Energy	**Design**	ANSYS,FEMLAB,AutoCAD3D,SoundPLAN
Automation	Business Analytics, AI, ML, Data Analytics	**OpSys**	SUSE–REDHAT–KALI Linux, Windows
Electro-Mech	HV/LV Power,AutoControl,MPU,HVAC,VRF	**Standards**	QMS,EMS,OHSAS,ISO,IEC,ASME,ASHRAE
Languages	MATLAB,FORTRAN77,Python,SQL,VB,C++	**Hobby**	CompCoding,Traveling,Reading,Writing

Areas of Interest

Information Systems Security & Assurance — Cyber Security — Data Science & Analytics — Machine Learning
Artificial Intelligence — Statistics & Analytics — Nano-technology — Environmental Engineering

Business Operations — Operations Management — Business Analytics — Projects Management — FinTech

Professional Roles

As the Chief Operations Officer [COO]

- Business Operational activities: Oversee day-to-day activities of processes and process owners
- Operational Management: Analyze operations towards process improvement and sustainability of the company
- Financial Tools to play: IS, BS, KPI, NSV, CAPEX, COGS, OPEX, CFS, PAT, BCR, ROI, NPV, etc.
- Strategic problem solver: Operations, Processes, Operational Crisis Management, Leadership
- Establishment of SOPs: Manage procedures and coaching people, Establish policies to culture and vision
- Project Leader: Direct all managerial staff, oversee daily activity /ensure project efficiency
- Financial Controller: Involve in controlling company OPEX, in projects/products cost minimization

As a Consultant

- Advise the board of directors on best technology practices in business strategic planning, decision making, following-up business & sales growth patterns, crisis management, etc. by using business analytics
- Intervene IT dept. to establish ERP and implement of technology tools to run in advanced and proper way
- Groom the process owners to understand business analytics for their better decision making
- Represent the company to customers/foreign stakeholders, specially at critical instances in operations & projects
- Advise and mentor senior managers to practice latest technology in processes with established SOPs
- Attend and advise BOD while initiating new business units, such as Govt. IT and environmental projects, etc.

Career History

Consultant & Chief Operations Officer
Pick-Power & Engineering Company — *Sep 2023 — to date*

HEAD — Operations Excellence Dept. (OpEx) & Projects Coordinator
EnergyPac Engineering Ltd. /ENERGYPAC — *Nov 2019 — Aug 2023*

Head of Operations — Chief Operations Officer
Pick-Power & Engineering Company — *Jun 2016 — Oct 2019*

Operations Head
i-Energy Engineering Services Ltd. — *Jan 2014 — May 2016*

Head of Segment – (Engineering Services, EnS)
Rahimafrooz Energy Services Ltd. , RAHIMAFROOZ Group — *Dec 2009 — Dec 2013*

Manager — Engineering Services
Rahimafrooz Energy Services Ltd. , RAHIMAFROOZ Group *Dec 2008 — Nov 2009*

Manager — Projects & Technical
Rahimafrooz Batteries Ltd., RAHIMAFROOZ Group *Mar 2006 — Nov 2008*

Head of Business Development – Light Engineering Services (Metal parts manufacturing)
RAHIMAFROOZ Group with SEDF, WORLD BANK *Jul 2004 — Feb 2006*

NSERC Researcher — Micro-Electromechanical Systems
University of Alberta, Canada *Jan 2002 — Dec 2003*

Production Engineer — Maintenance Engineer
TCEL & Rahimafrooz Batteries Ltd. *Nov 1999 — Nov 2001*

Professional Development

Computer: Ongoing Online Training
– CompTIA Security+ by Mike Meyers, Python programming with Mosh, Artificial Intelligence: "Machine Learning Crash Course with TensorFlow APIs" by Google Hands-on development

Hands-on development
– Leading to develop a PS module of ERP on PHP MySQL, Simulation, modeling and mapping (e.g. MATLAB, SoundPLAN)

Workshop & Presentation
– Rep-meets, workshops, and paper presentation in Canada, Germany, Greece & Thailand Convened symposiums on Environmental Awareness at the Department of Environment (DoE)

Business Analytics
– Business Modeling, Financial Feasibility, Business Crisis Management

Mechanical & Electrical Engineering
– Designing and Simulation with FEMLAB, MATLAB, ANSYS, CATIA V5
– Electrical Power Technology (Medium and High Voltage) and Automation (Microprocessor based controllers, SCADA, Modbus RTU Network System)
– Hands-on training and manufacturing experience of micro-sensors in the Microfabrication Lab (NINT – National Institute for Nanotechnology, Alberta) of the University of Alberta

Professional Training & Courses

National Dissemination Program on Energy Management Capacity Building **Japan**
Asian Productivity Organization, APO

Training on ISO9001, Environmental Management Systems & ISO14000 **Switzerland**
International Standardization Organization (ISO)

Behavioral and Executive development, SENSEI Training (I+10) **BD**
SENSEI INTERNATIONAL, NY USA

Full Course Completed on Circuits and Electronics 6.002x **USA**
Massachusetts Institute of Technology (MIT)

Project Management Professional (PMP) **BD**
Bdjobs Training Center Dhaka

Training on Occupational Health and Safety ISO18000, OH&S **BD**
Bureau Veritas

Human Resource and Payroll Management Systems **BD**
Rahimafrooz Group

Machine Sound and Vibration Control **Sweden**
KTH Royal Institute of Technology in Stockholm

Design, Simulation with ANSYS CFX, FEMLAB & Pro-Engineer & CATIA 3D CANADA **Canada**
University of Alberta

AutoCAD Training on 2D and 3D **BD**
Institute of Engineers, Bangladesh (IEB)

Training on Supply Chain Management (SCM) — **BD**
Bdjobs Training Center Dhaka

Three phase training courses on Micro-fabrication Manufacturing & Safety — **Canada**
NINT — National Institute of Nano Fabrication, Alberta

SP8.1 SOFTWARE: Urban Sound Pollution Mapping and Control — **Germany**
SoundPLAN Inc., Germany

Environment Pollution & Control — **Thailand**
GeoNoise Thailand Co. Ltd, Thailand

Thermal Power Plant (60MW), Barge Mounted (2x28MW) — **BD**
Shikalbaha Power Plant, Chittagong

Education

University of Alberta (U of A) — **Edmonton AB Canada**
MSc in Mechanical Engineering (MecE) — MicroElectroMechanical Systems — *2004*
Research: MEMS - Development of a Micro-sensor to Measure Humidity inside the Human Airways

Bangladesh University of Engineering and Technology — BUET — **Bangladesh**
Bachelor of Science in Mechanical Engineering (ME) — Control Systems — *1999*
Project: Mechatronics - Development of an Automatic Feedback Control System

Dhaka College, Dhaka — **Bangladesh**
Higher Secondary Certificate (HSC) in science — *1992*

Dhaka Residential Model School — DRMC — **Bangladesh**
Secondary School Certificate (SSC) in science — *1990*

Teaching & Trainer Experience

– Numerical Analysis for Engineers
– Heat & Mass Transfer
– MATLAB for Engineers
– AutoCAD 2D & 3D
– Noise Mapping, Modeling & Control on SoundPLAN

Papers/Publications/Articles

Department of Environment, Bangladesh (DOE)
Proposition for Digital Ambient Noise Monitoring Network System in Bangladesh for Urban Noise Control — *2018*

Souvenir, DOE Bangladesh on the World Environment Day 2018
Bangladesh, Environment, and the Insidious Sound — *2018*

The 23rd International Congress on Sound and Vibration, Athens, Greece
An Ultra-Critical Silencing System: Modeling and Implementation of an Energy Efficient Noise Attenuating System — *2016*

IEEE Xplore & The 2003 Intl. Conference on MEMS, NANO & Smart Systems, Banff, Alberta, Canada
Development of a Humidity Micro-sensor with Thermal Reset — *2003*

3rd Alberta Biomedical Engineering Conference, Banff, Alberta, Canada
A Multi-sensor Micro-probe to Map Conditions in the Human Airways — *2002*

The 6th APM'99 & International Conference on Mechanical Engineering, IEB, Bangladesh
Mechatronics - Development of an Automatic Position Control System of a Pitot Tube Across a Fluid Flow Duct — *2000*

Honors & Awards

Research Council of Canada (NSERC)
Full funded Research Grant by Natural Sciences and Engineering — *2002-2004*

Bangladesh University of Engineering & Technology — BUET, Dhaka, Bangladesh
Technical Scholarship — *1994-1999*

Dhaka Board, Bangladesh
Academic distinction scholarship — *1991-1992*

Department of Environment, Bangladesh (DOE)
Chief Project Proponent on Digital Ambient NMNS for Dhaka City Traffic — *Aug 2022*

Department of Environment, Bangladesh (DOE)

Souvenir Article Writer on the World Environment Day 2018 *Jun 2018*

Department of Environment, Bangladesh (DOE)
Symposium Convener and Chief Speaker on behalf of SoundPLAN GmbH *Oct 2016*

The 2003 International Conference on MEMS, NANO, and Smart Systems, Banff, Alberta, Canada
Publication presenter (first author) *Jul 2003*

The 3rd Alberta Biomedical Engineering Conference, Banff, Alberta, Canada
Publication presenter (first author) *Nov 2002*

International Conference on Mechanical Engineering in the 21st Century, IEB, Dhaka, Bangladesh
Publication presenter (first author) *Jan 2000*

References

Reference will be available upon request

(AHM Habib Ahsan)
Dated: 19 Sep 2024