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M ABIDUR RAHMAN SAKIB

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ABOUT ME

I notice what is about to fail, and I stay until it is fixed. I train a **digital twin** to flag a machine before it stops, and I founded **AiryRides** to keep **airport taxi transfers** on time and more efficient. I am a fourth-year mechanical engineering student at Southwest Petroleum University, and I want a European master's that teaches me to predict failure in the vehicles that move people.

WORK EXPERIENCE

FOUNDER AND CHIEF EXECUTIVE OFFICER – AIRYRIDES TECHNOLOGIES LLC – 01/03/2026 – Current – WYOMING, USA

Business or Sector: Transportation and storage | Department: Executive management | Email: abid@airyrides.com

Website

I **founded** and **run AiryRides**, a **B2B airport-transfer** company serving travel agencies, tour operators, hotels, and booking platforms. I built a network of **500+** vetted suppliers across **10** cities in **four** countries and led development of our partner portal and API. I handle sales with **8** active partners, plus budget, legal compliance, and a team of **11**.

BUSINESS DATA ANALYST – J START TRAVEL SICHUAN CO. LTD – 06/03/2025 – 15/02/2026 – CHENGDU, CHINA

Business or Sector: Transportation and storage | Department: IT Department Website

Part-time beside my degree, I analyzed booking, revenue, and route data for a Sichuan travel company. I found peak periods and weak routes that contributed to an **11.22%** revenue increase, built Tableau dashboards for management and sales, and cut reporting time and errors by **26%** with Excel and AI.

E-COMMERCE CUSTOMER SUPPORT AND LOGISTICS SPECIALIST – KKH (ANTA US AND EU) – 03/08/2024 – 05/02/2025 – CHENGDU, CHINA

Business or Sector: Other service activities | Department: Operations Department Website

As a senior support representative for **Anta's US and EU** online markets, I kept customer satisfaction at **4.98/5** and trained **two** new colleagues. I flagged recurring delivery delays and payment failures to the team, which led to **15%** fewer complaints.

OVERSEAS MARKETING MANAGER – CARL – 08/12/2023 – 02/06/2024 – CHENGDU, CHINA

I led overseas marketing for the online game **999yes** in Cameroon and Ivory Coast, running influencer campaigns on TikTok, Facebook, Instagram, and YouTube. I grew active users **29%** in **five months**, from **2,750** to **3,540**, including about **600** paying players, and brought 5,600 members into the game's Discord community

EDUCATION AND TRAINING

07/10/2023 – 30/06/2027 Chengdu, China

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING, Southwest Petroleum University

Website

Field of study **Mechanical Manufacturing Technology, Foundation of Control in Mechanical Engineering, Engineering Fluid Mechanics, University Mathematics, PLC Control and Programming, Engineering Mechanics**

Final grade: 88.5/100 | **Level in EQF:** EQF level 6 | Type of credits: **Chinese University Credit System**

PUBLICATIONS

Machine Learning-Based Predictive Maintenance for Mechanical Systems: Tool Wear and Bearing Fault Detection Using Vibration and Acoustic Emission Signals, 2026

Md Zakir Hossen, **M Abidur Rahman Sakib**, Md Ikbal Hasan co-authored a deep learning framework fusing vibration and acoustic emission signals to diagnose bearing faults and predict tool wear, with **99.05 %** multi-class accuracy and a **5.14 µm** wear error ($R^2 = 0.982$).
| Paper Link

Revolutionary Cryogenic Energy Storage for Ultra-Efficient Power and Smart Grids, 2025

Md Shayokh Mondol, Mohiuddin Hassan Badhon, Md. Zakir Hossen, **M Abidur Rahman Sakib**, Negla Sadia Jahan co-authored a study of cryogenic energy storage for smart grids that combined **Peng-Robinson thermodynamic modelling** and **Monte Carlo** and reported it outperforming **lithium-ion** and **hydrogen storage**. | **Paper Link**

PROJECTS

25/10/2025 – 22/12/2025

Automatic Conveyor Sorting System

I designed, built, and programmed a metal sorter, **95.0%** accurate. **25/10/2025 – 22/12/2025**

Design and manufacture of a bearing-less car

My bearing-less inertia car took **first** place among **11** teams. **16/06/2025 – 26/06/2025**

Calibration of a Piezoelectric Measurement System

I calibrated an accelerometer and matched three resonances within **1.74%**. **20/04/2026 – 12/06/2026**

Digital Twin for Vibration-Based Fault Diagnosis of Rotating Machinery

My digital twin lifted diagnosis accuracy from **81.7%** to **94.0%**. **23/03/2026 – 28/06/2026**

Multi-Objective Optimization of Precision Machining

I evaluated **648** turning settings, then stress-tested my own optimum. **18/03/2026 – 03/06/2026**

HONOURS AND AWARDS

Best Class Monitor Award SWPU 2025 – Southwest Petroleum University , 04/01/2026

Best of **ten** class monitors across the university, chosen by faculty and by the classmates I led.

Food Cooking Competition (Bangladeshi Cuisine) – Southwest Petroleum University, 19/10/2024

Won ahead of **47** other contestants with **mustard hilsa curry and rice**, Bangladesh's national fish combined with **Sichuan pepper** and **Chinese spices**. The dish was so good that the judges complimented me that I have to open a restaurant in China after completing my graduation.

Full Tuition Fee Waiver for Academic Excellence and Student Leadership – Southwest Petroleum University, 13/09/2024

Awarded to **3** of **380** international students (**under 1 percent**) for academic achievement together with leadership, management, extracurricular, social work, and volunteer work. The waiver covers my **full annual tuition** of **20,000 RMB** for every year until graduation in June 2027, about **60,000 RMB** in total (around EUR 7,500).

MANAGEMENT & LEADERSHIP SKILLS

Country Representative of the Bangladeshi Student Community, 02/11/2023 - Current

Representing around **187 Bangladeshi students** at Southwest Petroleum University. In **Ramadan 2024**, power in the kitchen of Student Dormitory 24 for international students went off at 11 pm, so nobody could cook or warm food for suhoor, the 3 am pre-dawn meal. I raised it with the OIA on my own initiative, and the university ordered the dormitory management to supply power from 3 to 6 am.

First Organizer of Pohela Boishakh at SWPU, 12/04/2025 - 14/04/2025

As the **first** student to organize **Pohela Boishakh (Bengali New Year 1432)** for Bangladeshi students at SWPU, which has enrolled them since 2017, I led a team of **29** students from Bangladesh, Morocco, and Pakistan to organize the event. Around **400** people from Bangladesh, China, Morocco, Iraq, Senegal, Pakistan, and other countries attended. I now serve as **president** of the **Bangladesh Alumni Association of SWPU**.

VOLUNTEERING

06/05/2021 – CURRENT Noakhali, Bangladesh

Founder of Aloron Youth Foundation

I founded **Aloron Youth Foundation** in Noakhali in **2021**, during the **COVID-19** pandemic. It has helped **78** people to be financially solvent so far, and I still lead it as a volunteer organization of young people. Our **126** active members donate **blood** and **plasma** for caesarean,

thalassemic, and other surgery patients. We train young people with disabilities, no parents, in freelancing and photo and video editing. **Two** of them now work on content and marketing at **AiryRides**, my company.

SOCIAL AND POLITICAL ACTIVITIES

17/07/2024 – 18/07/2024 Chengdu, Sichuan Province, China

Organizer of a Peaceful Human Chain in Solidarity with Bangladesh's Student Movement 2024

I was the **first** among Bangladeshi students at Southwest Petroleum University to call for a public stand in support of the **student movement** in Bangladesh in **July 2024**. I organized the event, which had around **150** students. We called for an end to **the killing of students, fair justice for the victims, quota reform,** and **a democratic transfer of power**.

EXTRA CURRICULAR ACTIVITIES

20/12/2023 – 12/01/2025

Dance Team Leader, SWPU International Cultural Carnival (2024 & 2025)

I led a multinational dance team at **Southwest Petroleum University's International Cultural Carnival in 2024 and 2025**, and we placed **first** both times. In **2024**, I trained and managed **12** students and won **first** place among **12** teams. In **2025**, I gathered **15** students from Ghana, Bangladesh, China, and Morocco, trained them, and ran the rehearsals and eventually we won **first** place among **16** teams.

SKILLS

Research & Technical Skills

CAD software | SolidWorks | Ansys (FEM) | MATLAB | Python (computer programming) | C programming | 3d printing - FDM | Power BI | statistics

LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C2

CONFERENCES AND SEMINARS

02/06/2026 – 06/06/2026 Chengdu, Sichuan Province, China

The 1st International Symposium on Oil & Gas CCUS and New Energy

Attended the conference, which covers **carbon capture, utilization, storage** and **new energy** in the **oil** and **gas** industry.

RECOMMENDATIONS

Song Zhen Associate Professor of Mechanical Engineering, Master's Supervisor

Erasmus scholar and equipment fault-diagnosis teacher who marked my work in the **Foundation of Control** and **Industrial Robot**; praises how I moved into his own field by teaching myself machine learning.

Email zhen.song@rwth-aachen.de | **Phone (+86) 17702853998**

Li Gang Professor and Doctoral Supervisor, School of Mechanical and Electrical Engineering

Professor and doctoral supervisor at SWPU who taught me mechanical engineering **materials and forming processes** in autumn 2025; praises the materials and thinking behind my research.

Email ligang@swpu.edu.cn | **Phone (+86) 18328316664**

Pan Shenghu Associate Professor of Mechanical Engineering, Master's Supervisor Mechanical Design Section

Associate professor who has led more than **twenty oilfield** and **industrial projects**; ranked my conveyor sorter **first** in the class twice, as a **Siemens S7-1200 program** and as a full **SolidWorks**, **ANSYS**, and **CNC design**; would be glad to have me in his research group.

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