



Muhammad Hashim Khan

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ABOUT ME

An inventor who never knows enough, I harness Mechanical Engineering as a tool to address indigenous Pakistani challenges. Recipient of several institutional distinctions and international exposures, I am currently on my way to transforming two of my ideas into startups.

HONOURS AND AWARDS

Rector's Gold Medal

National University of Sciences & Technology [25/05/2023]

A team of 14 students and 2 faculty advisors set out to design, fabricate, and construct a formula racecar from scratch and then compete in a global engineering competition called FSUK 2022. There, we were the only to represent Pakistani engineering on the platform. I played my part in car design engineering, fabrication, logistics, finances, sponsorship campaigns, social media, vehicle inspections, and a few other departments. My efforts were acknowledged and I was given this award.

Portrait at the Hall of Fame

Divisional Public School

After securing an international representation for my well-deserved secondary education institution, a Hall of fame was inaugurated with my portrait being the first one to be hung, shortly followed by my extremely talented batch fellows.

Gold Medal of Grand Finalist (International stage)

International Science and Engineering Fair [08/05/2016]

Premier Engineering Fair organization ISEF beckons young minds from all over the world as their countries' faces of innovation and out-of-the-box thinking. As for me, I designed a novel shock absorber that would generate current each time the vehicle goes over a bump. I find myself extremely fortunate to have the opportunity to represent my country at such a prestigious platform. The international phase was held in Phoenix, Arizona, USA.

Gold Medal of Grand Finalist, (Country stage)

International Science and Engineering Fair (ISEF) [01/12/2015]

PROJECTS

Project Suspense: An intelligent Shock absorber that changes its stiffness (2023)

Project Trivor: The Indigenous Pakistani formula racecar (2022)

Barrier Transfer Machines for Road situation in Pakistan (2021)

Water Solutions for Covid Sensitive Areas (2020)

Pipe Climbing Device for National Design Challenge (2019)

Solar Powered Hydrogen Vehicle with Current Inducing Shock Absorbers (2016)

EDUCATION AND TRAINING

Bachelor of Mechanical Engineering

National University of Sciences and Technology [31/07/2018 – 31/10/2022]

Address: National University of Sciences and Technology NUST Campus, H-12, Islamabad, Pakistan., 44000 Islamabad (Pakistan)

Website: <https://nust.edu.pk/>

Final grade: 3.14/4

Additional Course: International Business Management

NUST Business School [31/07/2020 – 31/01/2021]

Address: NBS Building, Scholars Ave, H-12, Islamabad, Islamabad Capital Territory, 44000 Islamabad (Pakistan)

Website: <https://nbs.nust.edu.pk/>

Additional Course: Fundamentals of Accounting and Finance

NUST Business School [28/02/2021 – 31/05/2021]

Address: NBS Building, Scholars Ave, H-12, Islamabad Islamabad Capital Territory 44000 Islamabad, 44000 Islamabad (Pakistan)

Website: <https://nbs.nust.edu.pk/>

Additional Course: Organizational Behavior

NUST Business School [28/02/2022 – 31/05/2022]

Address: NBS Building, Scholars Ave, H-12, Islamabad Islamabad Capital Territory 44000 Islamabad 44000, 44000 Islamabad (Pakistan)

Website: <https://nbs.nust.edu.pk/>

Additional Course: Fundamentals of Marketing

NUST Business School [31/07/2021 – 31/12/2021]

Address: NBS Building, Scholars Ave, H-12, Islamabad Islamabad Capital Territory 44000 Islamabad 44000, 44000 Islamabad (Pakistan)

Website: <https://nbs.nust.edu.pk/>

WORK EXPERIENCE

Manufacturing Intern

Kausar Ghee Mills Pvt. Limited, G.T road [01/07/2019 – 30/08/2019]

Address: Adjacent Bangla Chianwali, G.T. Road, Morr Emanabad, Gujranwala.,

Country: Pakistan

Website: www.kausar.com.pk

Email address: kgm@kausar.com.pk

Name of unit or department: Vegetable Oil and Banaspati - **Business or sector:** Manufacturing

1. Monitoring the mechanical process flow.
2. Developing a deep understanding of Quality Control points placed at different points in the factory.
3. Observing mechanical processes on the production floor.
4. Gained standard implementation procedures in Laboratory.

Manufacturing Intern

Khatoon Industries [private] Ltd. [01/07/2020 – 15/08/2020]

City: Gujranwala

Country: Pakistan

1. Gained exposure from the operations at the soap noodles manufacturing plant.
2. Worked at Glucose Manufacturing Plant and observed Quality Standards implementation.
3. Mechanical Workshop operations were analyzed. Valuable mechanical engineering insight was attained.

Planning and Project Management Intern

Descon Engineering Limited [07/07/2021 – 17/08/2021]

City: Lahore

Country: Pakistan

Learned a new software: Primavera P6 Professional for project management.
Used Primavera P6 to plan out the Electrical Package VI of DHA Penta Square, thus creating a Gantt chart that would be followed by Descon for the construction of a power plant inside the housing society.
Personally compiled the sixth invoice of DHA, amounting to PKR 13,20,00,000.

Mechanical Intern

Descon Engineering Ltd. [01/08/2021 – 12/08/2021]

City: Lahore

Country: Pakistan

Analyzed and internalized differences in the applicability of various turbomachinery and subtypes.

Formula Racecar Engineer

Auj Formula Student [01/08/2021 – 01/07/2022]

City: Islamabad

Country: Pakistan

1. Learning and implementing Formula Racecar designing regulations under the rulebook provided by Formula Student UK IMechE.
2. Co-designed uprights, power train, drive train, suspension system, and A-arms of the racecar.
3. Participated in the fabrication of chassis.

Head of Business Operations

Auj Formula Student [01/08/2021 – 01/07/2022]

City: Islamabad

Country: Pakistan

Auj Formula Student is a racecar-making company, which comprises students that are studying or have studied at NUST University. The company procures sponsorships, and then from arranged funds, builds a formula racecar from scratch and then takes the racecar to a prestigious competition "FSUK" which is held in the UK every year, where we represent Team Pakistan on an international forum.

What has been my contribution to the team?

1. During the inefficacy of the Finance team, personally formulated minute sheets and cashed out minute sheets worth 100,000 PKR.
2. Formulated an action plan to approach potential sponsors for the formula racing team. Team Auj had cumulative sponsorship of 3.5 Million PKR for the year 2021-2022.
3. Worked closely with Sponsorships Team to formulate a business proposal. Presented business proposals to the Assistant Managers Marketing in Swvl, Careem, uber and 12 other MNCs.
4. Personally formulated the business plan which was presented by Team Auj in an international competition FSUK 2022, held in Silverstone, UK in July 2022.
5. Personally formulated cost estimations of the Business Plan which spanned a financial plan of 5 years. Other aspects of the Business plan covered were market analysis, competitive edge, operational plan, and product development.
6. Personally incorporated the financial figures in the Cost Report Document, which was to be submitted for scrutiny by the Judges at the international Competition Formula Student UK (FSUK).
7. Auj Formula Student was the only team that represented Pakistan on a prestigious platform as FSUK. I take immense pride to head the non-technical department of this organization.

Automotive News Writer

ProPaksitani [28/03/2022 – 01/06/2022]

City: Islamabad

My job was to contribute my part to Pro Pakistani's Automotive news section. Good command of the language, the ability to work seamlessly in small-window timelines, and professionalism were a must. I happened to love my job because every day there's a new vehicle I got to know about, loaded with some new features that you'd want to have in the car parked in your garage. For me, it's the side-product of learning something new every day, all the while making millions read it as well.

Freelance Research Writer

N/A (Self Employed) [01/06/2022 – Current]

City: Lahore

Country: Pakistan

Writing technical articles for a number of websites as well as working as a research assistant on a research article related to automobiles.

Startup CEO

Drinkitt, Suspense, and Knowledge Royale

Three of the startups that I aspire to realize in near future. They cover the fields of education, Water Sanitation, and Automotive technology.

LANGUAGE SKILLS

Mother tongue(s): **Urdu** | **Punjabi; Punjabi**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

DIGITAL SKILLS

Microsoft Office / PrimaVera / Solidworks / Pro E / Comsol Multiphysics / Matlab / AutoCAD / Ansys / Python / Arduino / C++ / Autodesk (Fusion 360)