



Shanza Kainat

Nationality: Pakistani **Date of birth:** 06/08/2001 **Gender:** Female

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WORK EXPERIENCE

Mitacs Globalink Researcher | Latent Heat Thermal Energy Storage Systems

Mitacs Globalink Research Program (University of Guelph) [06/06/2024 – 06/09/2024]

City: Guelph | Country: Canada

- Awarded a fully funded research scholarship due to my strong academic record and significant achievements in both academic and professional experiences. This opportunity not only provided me with full financial support but also allowed me to work closely with esteemed professors, from whom I learned a great deal.
- Thermal management of electric vehicles battery by encapsulated PCM
- Conduction of simulations for the transient response of temperature, heat transfer rate, by varying various design and operational parameters such as battery arrangements, cooling channels.

Process Optimization and Efficiency Intern

Government of Pakistan Ministry of Finance Pakistan Mint [01/06/2023 – 11/07/2023]

City: Lahore | Country: Pakistan

- Involvement in processes in minting of coins
- Melting, Rolling, Cutting, Annealing, Workshop
- Die, Engraving Coining, Examining, Assay Lab, Medals
- Team Work
- Provide regular reports to increase the outcome by reducing the manpower.
- Dealing Workers

Explore Engineering Virtual Experience Program

FORAGE [01/02/2023 – 05/03/2023]

Country: Australia

- Energy source design and performance implications
- Effects of compression and bypass ratio
- Conducting Literature Review
- Submission of involved Documents

Customer Service Representative

State Life Insurance Corporation of Pakistan [01/12/2020 – 01/01/2023]

City: Lahore | Country: Pakistan

- Meeting with clients virtually and during sales visits
- Demonstrating and presenting products, establishing new business, maintaining accurate records
- Attending trade exhibitions, conferences and meetings, reviewing sales performance, collaborating with team members to achieve result

EDUCATION AND TRAINING

BSc Mechanical Engineering

University of Engineering and Technology, UET, Lahore New Campus [2020 – 2024]

City: Lahore | Country: Pakistan | Field(s) of study: Engineering | Final grade: 3.544 out of 4

FSc (Pre- Engineering)

Fazaia Intermediate College, Lahore Cantt [2018 – 2020]

City: Lahore | Country: Pakistan | Final grade: 86.90%

Matric in Sciences

Fauji Foundation Model School and College [2016 – 2018]

City: Jhelum | Country: Pakistan | Final grade: 90.36%

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Panjabi

LISTENING C2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION B1

DIGITAL SKILLS

Solid Works / AutoCad 2D -3D / eQuest / Energy Plus / Origin Pro / Matlab / Microsoft Word / Microsoft Powerpoint / Microsoft Excel / End note / COMSOL Multiphysics

SOCIAL AND POLITICAL ACTIVITIES

[2021 – 2023] ASME(American Society of Mechanical Engineers)

Director of Finance

[2023 – Current] Lierature and Development Society

Member

[2023 – 2023] ASHRAE

Member of Autocad Workshop

PROJECTS

[06/2024 – 09/2024]

Developing and analyzing Battery Thermal Management Systems

I was awarded a fully funded research scholarship project under the supervision of Dr. Syeda Humaira Tasnim, focusing on the development and analysis of a battery thermal management system integrating thermoelectric coolers and phase change materials. My responsibilities included performing advanced numerical simulations in COMSOL to model the battery's chemical and thermal behavior, designing and fabricating a prototype of the thermal management system, and conducting experimental testing to optimize its thermal performance.

[06/2023 – 03/2024]

Design and Development of Cooling System for Electronic Devices

Design and Development of a Cooling System for Electronic Devices under the supervision of Dr. Farhan, funded by the faculty of Mechanical Engineering. The project aimed to develop an efficient cooling system to prevent overheating and improve the performance of sensitive electronic components. The responsibilities included performing CFD simulations to analyze heat transfer and airflow patterns, helping to optimize the cooling design for better thermal management and system reliability.

[09/2022 – 05/2023]

Maintenance of Thick and Thin cylinder

The project involved inspecting and evaluating the stress distribution, identifying potential failure points, and suggesting maintenance strategies to ensure safe operation. I contributed to the assessment of material behavior under varying pressure conditions and recommended suitable repair and maintenance techniques to extend the service life of both thick and thin-walled cylinders.

[01/2022 – 05/2022]

Modeling of Effective Building Energy System

Modeling of an Effective Building Energy System project, which focused on designing energy-efficient systems to reduce building energy consumption and improve overall performance. The project involved simulating heating, ventilation, and air conditioning (HVAC) systems, analyzing energy flow, and integrating renewable energy sources for sustainable building operation.

HONOURS AND AWARDS

[06/01/2025] Mitacs

Research & development management

[16/06/2024] University of Guelph

Worker Health and Safety Awareness

[16/06/2024] University of Guelph

Laboratory Safety

[16/06/2024] University of Guelph

EHS WHMIS

[2020] CoEEE

International Conference on Energy

[15/01/2022] Career Development College London

Women in Leadership

[10/01/2022] World Health Organization(WHO)

Standard Precautions: Waste Management

[09/01/2022] Unicef

BSafe

[12/01/2022] Itronix Solutions

Auto Cad Quiz

[15/01/2022] Autodesk Design Academy

Introduction to Structural Analysis

[12/01/2022] Itronix Solutions

Solid Works Quiz

COMMUNICATION AND INTERPERSONAL SKILLS

Good Communication Skills

Leadership experience.

Quick Learning

Problem solving abilities