

Muhammad Junaid Khan

Mechanical Engineer | OSHA Certified



PERSONAL DETAILS

Phone: +966 599508596

Email: enr.mjunaiddkhan@outlook.com

Address: An Nasim Al Gharbi, Riyadh, Saudi Arabia

Iqama: Transferrable

SUMMARY

Highly motivated Mechanical Engineer with 3 years of experience in mechanical maintenance, HVAC system design and installation, Fire Fighting system, CCTV and Computer aided design seeking to leverage technical skills and hands-on expertise to contribute to efficient, reliable operations in a growth-focused organization.

WORK EXPERIENCE

Feb, 2025 to Present **Mechanical Engineer | Electro Engineers co. ltd., Saudi Arabia**

- Led the installation, testing, and commissioning of large-scale HVAC systems, including TRANE chillers, AHUs, FCUs, and VRF systems, ensuring compliance with design specifications and Saudi Building Codes (SBC) and the installation of the Fire Fighting systems including sprinkler networks, fire pumps, standpipes, and clean agent systems (FM-200, CO₂) according to standards.
- Managed the hookup and integration of water pumps and piping network.
- Conducted functional performance testing and full system commissioning for chiller plant and air distribution system optimizing for efficiency and reliability.
- Diagnosed and resolved complex mechanical issues during installation and commissioning phases, minimizing project delays.
- Provided technical support and on-site training to client operations and maintenance teams.
- Prepared detailed commissioning reports, system performance documentation, and accurate as-built drawings.

Aug, 2023 to Dec, 2024 **Maintenance Engineer | Muhammad Haroon & Sons Contractor, Pakistan**

- Responsible for the regular inspections at asphalt plant equipment including burners, conveyors, drum and mixers to prevent unplanned breakdowns.
- Supervised the mechanical maintenance for heavy machinery such as pavers, rollers, and loaders, focusing on hydraulic and engine systems.
- Supervised the mechanical repair process and ensure compliance with safety regulations.
- Coordinated with suppliers and vendors for spare parts and technical support.
- Maintained the daily maintenance logs and equipment history records along with preparing the maintenance schedules and work orders using internal software systems.

Sep, 2022 to Jun, 2023 Mechanical (HVAC) Engineer | G Tech Enterprise, Pakistan

- Assisted in heating and cooling load calculation according to the ASHRAE standards for the assigned HVAC projects.
- Supervised the HVAC and CCTV system installation and upkeep.
- Designed the 3D model and layouts for the assigned projects on AutoCAD and Creo Parametric.

EDUCATION

Sep, 2018 to Jul, 2022 BSc Mechanical Engineering

Capital University of Science and Technology, ISLAMABAD, PAKISTAN

- CGPA: 3.71/4.00
- Major in Internal Combustion Engine, Renewable Energy and Technology, Refrigeration and Air Conditioning.
- Did Final Year Project in Development of solar dehydrator for Fruits and Vegetables Funded by IGNITE.

Aug, 2016 to July 2018 FSc (Pre-Engineering)

Punjab Group of Colleges, RAWALAKOT, PAKISTAN

- Passed with 863/1100 marks
- Major in Science

CERTIFICATIONS & ACHIEVEMENTS

CERTIFICATIONS:

- **OSHA 30 Hours Construction Safety and Health**
- **Fire Safety Management**
Certificate authorized by International Training Center ITC.
- **Automobile Engineering Basics**
Professional certification offered by European Open University.
- **Six Sigma White Belt**
Certification offered by Council of Six Sigma Certification.
- **Toyota 5S Methodology**
Course offered by Indus Motors Ltd. and United Nation Association of Pakistan.
- **Green Investments, Renewable Energy**
Certified course offered by Asian Development Bank Institute.
- **The COSHH Risk Assessor Certification™**

ACHIEVEMENTS:

- **06 Dean Honor Certificates** awarded for securing more than 3.5 GPA in Degree program.
- Final Year Project **Qualified for the 3rd Engineering Capstone Exhibition** under Pakistan Engineering Council at Pak-China Expo center.
- Received the **Grant of PKR 80,000** for Final Year Project by IGNITE (Department under Ministry of Science and Technology).
- Research Paper “The Design and Development of a Solar Dehydrator for Fruits” got published in International Engineering Journal (<https://doi.org/10.3390/engproc2023045048>).

SKILLS

- **Heating and Cooling Load Calculation (HVAC):** Proficient in performing heating and cooling load calculations using industry-standard methods and tools (e.g., HAP, ASHRAE guidelines).
- **Computer Aided Design (Creo, AutoCAD):** Skilled in creating 2D drawings and 3D models for mechanical components and systems using AutoCAD and Creo Parametric.
- **Mechanical Maintenance:** Skilled in preventive and corrective maintenance of mechanical systems and equipment, including HVAC, pumps, motors, piping, and rotating machinery.
- **Site Supervision:** Monitor the construction process to ensure that work complies with approved designs, specifications, and safety standards.
- **Safety Compliance Monitoring:** Well-versed in monitoring and enforcing workplace safety protocols in alignment with OSHA standards and local safety regulations.
- **Microsoft Office Suite:** Proficient in using Microsoft Office Suite, including MS Excel for data analysis and reporting, MS Word for technical documentation, and MS PowerPoint for professional presentations.
- **Report Writing and Analysis:** Skilled in preparing clear, concise, and data-driven technical reports, maintenance logs, project documentation, and performance analysis.
- **Problem Solving Ability:** Skilled in applying engineering principles, critical thinking, and troubleshooting techniques to resolve mechanical, maintenance, and system issues.
- **Minor Skills (ANSYS, EES):** Basic proficiency in using ANSYS for finite element analysis (FEA) of mechanical components and familiarity with EES (Engineering Equation Solver) for solving equations.

MEMBERSHIP

- Life-time Registered Engineer with Pakistan Engineering Council PEC (MECH/52350).

LANGUAGES

- English
- Urdu
- Arabic (Basic)

UNIVERSITY DEGREE

Registration No. BME183032



Serial No. 006725
Degree No. BS22-2424

Capital University of Science and Technology (Islamabad)

in recognition of the fulfilment of prescribed requirements
awards

Muhammad Junaid Khan s/o Tahir Sarwar

the degree of

Bachelor of Science in Mechanical Engineering

on July 29, 2022.




Controller of Examinations


Vice Chancellor


Chancellor

PAKISTAN ENGINEERING COUNCIL REGISTERED ENGINEER CARD



 **REGISTERED ENGINEER**
REGISTERED ENGINEER CARD - REGISTRATION NUMBER: ENGR/52350 - PAKISTAN ENGINEERING COUNCIL

Name: ENGR MUHAMMAD JUNAID KHAN

CNIC: 8230372301037

Reg No: MECH/52350

Expiry: DECEMBER 31,2025

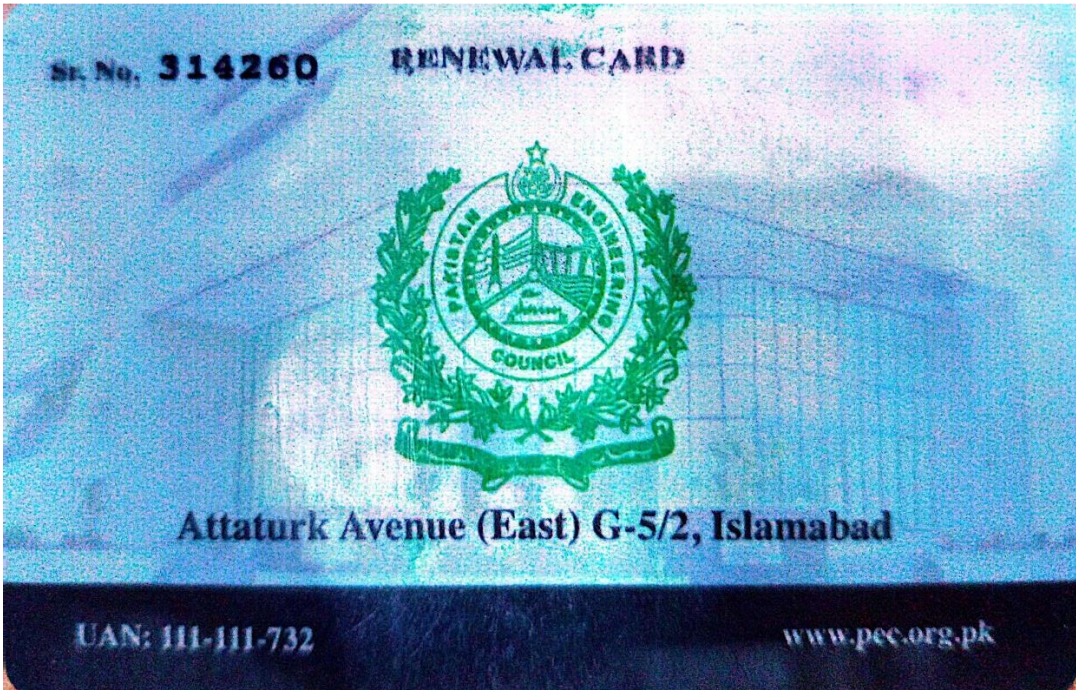
Address: G TECH AND TRADERS, QASIM MARKET, OPPOSITE
SCO EXCHANGE, RAWALAKOT, AZAD KASHMIR,
POONCH


Signature of Holder





Registrar

Scanned with CamScanner



Sr. No. 314260 **RENEWAL CARD**



Attaturk Avenue (East) G-5/2, Islamabad

UAN: III-111-732 **www.pec.org.pk**

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OSHA CERTIFICATION



OSHAcademy™
Occupational Safety & Health Training



Certificate of Completion
Professional Development Program

This is to certify that
MUHAMMAD JUNAID KHAN

Has demonstrated academic excellence with distinction by completing all academic requirements in this 30-hour OSHA Academy Professional Development Certificate Program presented by OSHA Academy Authorized Training Provider (ATP), EDCONS Institute of Business and Technology. This achievement demonstrates commitment and professionalism in the field of Occupational Safety and Health.

Construction Safety and Health

Steven J. Geige, M.A., C.E.T., CSHM-E
Director, Instructor
OSHA Academy Safety and Health Training

238288-115

Student #

05-11-2024

Issue Date

Imtiaz Ali
Director
EDCONS Institute of Business & Technology
Middle East & Asia
ATP #: 201505080015

Validate Certificate



Certificates can be validated through the
OSHA Academy website.
Validation Code: 238288-115-353-3044
www.oshaacademy-atp.com/verify



The content of this training conforms with U.S. Department of Labor (OSHA) training standards and ANSI Z490.1, Criteria for Accepted Practices in Safety, Health and Environmental Training.

FIRE SAFETY MANAGEMENT CERTIFICATION



CERTIFICATE OF PARTICIPATION

delivered to

Muhammad Junaid Khan

who participated in the training activity

Fire Safety Management

A self-guided online course

A handwritten signature in black ink, appearing to read 'Tom Wambeke', written over a faint, large watermark of the ITC logo.

24 July 2025
Date

Tom Wambeke
Activity Manager



156053023



SIX SIGMA CERTIFICATION



SIX SIGMA WHITE BELT

Certification that

Muhammad Junaid Khan

Has satisfactorily completed and has demonstrated proficiency in the curriculum set forth by the Council for Six Sigma Certification to be awarded the title of Certified White Belt.


Managing Director

Certification Number: filQdMr3ho
Certification Date: July 20th, 2024

AUTOMOBILE ENGINEERING CERTIFICATION


EUROPEAN OPEN UNIVERSITY

CERTIFICATE

This certifies that
Muhammad Junaid Khan
has satisfactorily completed the course of study in
Automobile Engineering Basics

PROFESSIONAL CERTIFICATE PROGRAM

Awarded Date

April 9, 2025

Alper Karakus

President – Open Learning, AEU



Ursula Hermann

Director – Continuing Education, AEU

COSHH RISK ASSESSOR CERTIFICATION



CERTIFICATE FOR SUCCESSFULLY COMPLETING

The COSHH Risk Assessor Certification™

PRESENTED TO

Muhammad Junaid Khan

DALE ALLEN
FOUNDER OF THE KNIGHTS OF SAFETY

ROY ROGERS, CFIOSH
COURSE PROVIDER

Issued: 2025-07-26

Expires: 2026-07-26

Certificate ID: dhath9l0a



TOYOTA 5S METHODOLOGY CERTIFICATION



CERTIFICATE OF PARTICIPATION

AWARDED TO

Muhammad Junaid Khan

for the effective participation in online training on

Toyota 5S Methodology

conducted under

TOYOTA 5S Ecological Conservation Program, 2022 of

Indus Motor Company Limited

in partnership with

United Nations Association of Pakistan

Indus Motor Company Limited

United Nations Association of Pakistan



July 31, 2022

GREEN INVESTMENTS: RENEWABLE ENERGY CERTIFICATION



Certificate of Completion

Issued to:

Muhammad Junaid Khan

for completing the course:

Green Investments: Renewable Energy

21 December 2021

Certificate ID: 61349-164-002-2154

Verify Link: <https://elearning-adbi.org/certificate-verifier/?&code=61349-164-002-2154>

Tetsushi Sonobe

Tetsushi Sonobe, Dean, ADBI



FOUNDATION OF PROJECT MANAGEMENT CERTIFICATION



May 7, 2023

Muhammad Junaid Khan

has successfully completed

Foundations of Project Management

an online non-credit course authorized by Google and offered through Coursera

A handwritten signature in black ink, reading "Amanda Brophy".

Amanda Brophy
Global Director of Google Career Certificates

COURSE
CERTIFICATE



Verify at:

<https://coursera.org/verify/NCSSYVTKLOH2>

Coursera has confirmed the identity of this individual and their participation in the course.

**VOLUNTEER IN SERVICE
APPRECIATION CERTIFICATE**

Registration No: BME183032



Date of issue: Fall 2019

Capital University of Science and Technology
Islamabad

Volunteers In Service Directorate
Certificate of Appreciation

Presented to

MR. M. JUNAID KHAN

In recognition of commendable 65 hours volunteer efforts for humanity

Mr. Naeem Saud (Manager VIS)

Prof. Dr. Shaukat Iqbal (Director VIS)

RESEARCH PAPER PUBLICATION CERTIFICATE



an Open Access Journal by MDPI

CITESCORE
0.7

CERTIFICATE OF PUBLICATION

Certificate of publication for the article titled:
The Design and Development of a Solar Dehydrator for Fruits

Authored by:

Mohammad Javed Hyder; **Muhammad Junaid Khan**; Muhammad Abdullah Khan; Salman Saeed

Published in:

Eng. Proc. 2023, Volume 45, Issue 1, 48



Basel, September 2023

APPRECIATION CERTIFICATE

My Final Year Project got **Qualified for the 3rd Engineering Capstone Exhibition** among the 100 projects all over the universities in Pakistan. This event is organized under Pakistan Engineering Council PEC at Pak-China Expo center.



DEAN's HONOR AWARD
(Period September, 2018 to February, 2019)



Capital University of Science and Technology
Islamabad

Dean's Honor Roll

*This is to certify that Mr./Ms. Muhammad Junaid Khan Registration No. BME183032,
secured a GPA 3.90/4.00 in Fall 2018. In recognition of this achievement
he/she had the privilege to earn the Dean's Roll of Honor.*

Head
Department of Mechanical Engineering

Dean
Faculty of Engineering

DEAN's HONOR AWARD
(Period March, 2019 to July, 2019)



Capital University of Science and Technology
Islamabad

Dean's Honor Roll

*This is to certify that Mr./Ms. Muhammad Junaid Khan Registration No. BME183032,
secured a GPA 3.74/4.00 in Spring 2019. In recognition of this achievement
he/she had the privilege to earn the Dean's Roll of Honor.*

Mahabat

Head

Department of Mechanical Engineering

Dean

Faculty of Engineering

DEAN'S HONOR AWARD
(Period September, 2019 to February, 2020)



Capital University of Science and Technology
Islamabad

Dean's Honor Roll

*This is to certify that Mr./Ms. Muhammad Junaid Khan Registration No. BME183032,
secured a GPA 3.83/4.00 in Fall 2019. In recognition of this achievement
he/she had the privilege to earn the Dean's Roll of Honor.*

Muhabat

Head

Department of Mechanical Engineering

Dean

Faculty of Engineering

DEAN'S HONOR AWARD
(Period March, 2021 to July, 2021)



Capital University of Science and Technology
Islamabad

Dean's Honor Roll

*This is to certify that Mr./Ms. Muhammad Junaid Khan Registration No. BME183032,
secured a GPA 3.84/4.00 in Spring 2021. In recognition of this achievement
he/she had the privilege to earn the Dean's Roll of Honor.*

Mehabab

Head

Department of Mechanical Engineering

Dean

Faculty of Engineering

DEAN's HONOR AWARD
(Period September, 2021 to February, 2022)



Capital University of Science and Technology
Islamabad

Dean's Honor Roll

*This is to certify that Mr./Ms. Muhammad Junaid Khan Registration No. BME183032,
secured a GPA 3.87/4.00 in Fall 2021. In recognition of this achievement
he/she had the privilege to earn the Dean's Roll of Honor.*

Mahabat

Head

Department of Mechanical Engineering

[Signature]

Dean

Faculty of Engineering