#### **Mechanical Engineer**

## Muhammad Bilal



#### **Objective**

**Mechanical Engineering** professional with; Strong technical, analytical, leadership, and communication skills with practical experience in engineering, manufacturing, Turnaround, and project management.

**Skills:** AutoCAD, Excel, Word, Heat Load Calculations, Piping Inspections, Equipment installation, Material inspection.

**PASSPORT NO:** EJ3708331 **CNIC NO:**36303-2130833-9

contact: +923026552695/ muhammadbilal2695@gmail.com

#### **Research & Publications**

**Title** Design & fabrication of bismuth telluride (Bi2Te3) based small capacity peltier effect refrigerator.

**Author: MUHAMMAD BILAL** 

**Volume:** Vol 5, Issue 7; July 2022

**DOI:** North American Academic Research, 5(7) 01-01-16 July 2022,

https://doi.org/10.5281/zenodo.6812204

Publications SITE: NAAR (north American academic research) Monthly Journal from

TWASP (The World Association of Scientists & Professionals), USA.

May 2023-current

Trainee Mechanical Engineer, Expertise Contracting Company Jubail KSA

Worked on SABIC Plant Turnaround (Hadeed steel plant) with a team of 150 people which

included both direct and indirect manpower. My roles are given below:

- Assisting Fabrication team to understand the Piping isometrics.
- To discuss the Piping layout with Project Engineer to understand the piping route.
- Assisting Inspection team to check the parameters as per API 570.
- Understanding the P&ID of the area.
- Deal the Turnaround also as a material coordinator.
- Actively participated in Bolt Torquing, Coating, wrapping & Holiday Test
- Hands-on training on PTW and its implementation at the site.

Ensured effective communication with crew members and senior supervisor.

January 2023-May 2023

Trainee Mechanical Engineer, Expertise Contracting Company Jubail KSA

Worked on **Saudi Aramco Plant Project (SASREF)** with a team of 100 people whichincluded

both direct and indirect manpower. My roles are given below:

- Assisting Fabrication team to understand the Piping isometrics.
- To discuss the Piping layout with Project Engineer to understand the piping route.
- Assisting Inspection team to check the parameters as per API 570.
- Understanding the P&ID of the area.
- Assisting the Inspection team with material inspection as per ASME and ASTM (MIR).
- Actively participated in Bolt Torquing, Coating, wrapping & Holiday Test activities.
- Hands-on training on PTW and its implementation at the site.

Ensured effective communication with crew members and senior supervisor.

**Experience** 

**Trainee Mechanical Engineer,** *Expertise Contracting Company Jubail KSA*Worked o **SABIC Plant Turnaround (Yanbu -Yansab)** with a team of 100 people which included both direct and indirect manpower. My roles are given below:

- Assisting Fabrication team to understand the Piping isometrics.
- To discuss the Piping layout with Project Engineer to understand the piping route.
- Assisting Inspection team to check the parameters as per API 570.
- Understanding the P&ID of the area.
- Played an active role as a fire watch man during hot job.
- Actively participated in Bolt Torquing, Coating, wrapping & Holiday Test activities.
- Hands-on training on PTW and its implementation at the site.
- Ensured effective communication with crew members and senior supervisor.

May 2022-December 2022

#### Trainee Mechanical Engineer, Expertise Contracting Company Jubail KSA

Worked on private Plant project (**Veolia Central Utilities and Waste valorization plant**) with a team of 450 people whichincluded both direct and indirect manpower. My roles are given below:

- Assisting Fabrication team to understand the Piping isometrics.
- To discuss the Piping layout with Project Engineer to understand the piping route.
- Assisting Inspection team to check the parameters as per API 570.
- Understanding the P&ID of the area.
- Deal with the project also as a material coordinator.
- Actively participated in Bolt Torquing, Coating, wrapping & Holiday Test activities.
- Hands-on training on PTW and its implementation at the site.
   Ensured effective communication with crew members and senior supervisor.

May 2022-May 2022

#### Wrapping Applicator Engineer, Three Lions Factory Dammam KSA

**Training completed with Three Lion Factory** Certificate provided by our client CHASE protective Coatings company. My roles are given below:

- To understand the Method statement for wrapping and coating and implementation on site.
- To understand the content of primer applied on the pipe surface before coating.
- Actively participated in Coating, wrapping & Holiday Testactivities.
- Understood the material used in outer and inner wrapping and the overlap between inner and outer wrap.
- Care shall be taken before applying insulation
- Hands-on training on wrapping applicator and its implementation at the site **SABIC Plant Turnaround (Petrokemya-North)** pipeline( ASME B31.4,B31.8).

March 2022-May 2022

#### Trainee Mechanical Engineer, Expertise Contracting Company Jubail KSA

Worked on **SABIC Plant Turnaround (Petrokemya-North)** with a team of 150 people which included both direct and indirect manpower. My roles are given below:

- Assisting Fabrication team to understand the Piping isometrics.
- To discuss the Piping layout with Project Engineer to understand the piping route.
- Assisting Inspection team to check the parameters as per API 570.
- Understanding the P&ID of the area.
- Played an active role as a fire watch man during hot job.
- Actively participated in Bolt Torquing, Coating, wrapping & Holiday Test activities.
- Hands-on training on PTW and its implementation at the site.
- Ensured effective communication with crew members and senior supervisor.

January 2022-February 2022

#### Trainee Mechanical Engineer, Expertise Contracting Company Jubail KSA

Worked on SABIC Plant Turnaround (**Petrokemya-South**) with a team of 100 people which included both direct and indirect manpower. My roles are given below:

- Understanding GA drawings of various equipment's.
- Making new nozzles fabrication report of Heat Exchanger, distillation column and pressure vessels.
- Understanding ASME Section VIII coding for inspection.
- Understanding NDE of on-stream equipment as per API 510. Involved in DPT, MP & RT.
- Got hands-on training as a Fire Watch, Permit Receiver.

May 2020-November 2022

#### **Junior Mechanical Engineer** Nespak Foundation

Working with the HVAC team to calculate the heat load for various locations. Finding out totaltonnage and equipment selection accordingly.

터	ucatio	۸n

2016-2020

#### B Sc Mechanical Engineering

UET Lahore Pakistan

#### Skills In

- AutoCADMicrosoft Office
- MATLAB

#### Interests

API Certification (510,570) ASTM, ASME Reading books Playing Football Cross culture lover

#### Contact

Al Jubail City Kingdom of Saudi Arabia +966571527350, +923026552695 muhammadbilal2695@gmail.com PEC Reg No: MECH/46531 Date of Issue: June 26, 2021



Serial No. 502803 PEC-11

### PAKISTAN ENGINEERING COUNCIL

#### **CERTIFICATE OF SUPERVISION**



Engr. MUHAMMAD BILAL having CNIC No: 3630321308339 resident of ABDUL SAMAD CHKI MAIN SUI GAS ROAD, CHADNI CHOK NEAR FAIZ-U-RAZA MUDRSA RAHIM YAR KHAN is eligible to work and supervise engineering works, in employment of constructor/operator firms registered with PEC during validity period of this certificate to gain experience of construction industry related projects/works.



This certificate is valid upto June 30, 2022.

This certificate is not renewable after expiry.

) Ja

Registrar
Pakistan Engineering Council,
Islamabad.

Lahore Engineering & Commercing

This is to certify that Mr. Muhammad Bilal

Son of Mr. Ghulam Mustafa of Swedish College of Engineering and Technology, Rahim Yar Khan has completed all the requirements for the award of

> B.Sc. degree in Mechanical Engineering on 31st August 2020 securing a

CGPA of 3.396 (Three Pt Three Nine Six) /4.0

He has accordingly been admitted to the Degree of Bachelor of Science

Mechanical Engineering



Controller of Examinations

Countersigned



### University of Engineering and Technology, Lahore

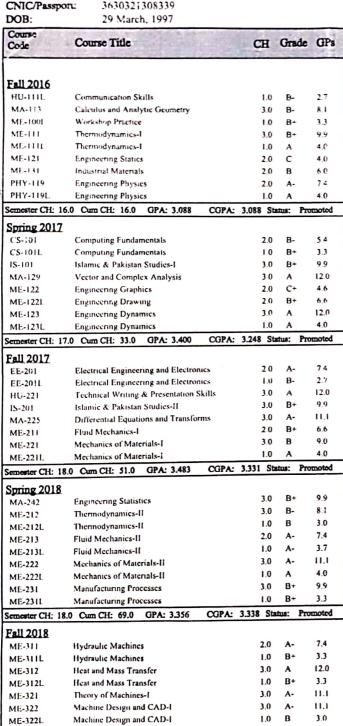
#### Affiliated Institute: Swedish College of Engineering and Technology, Rahim Yar Khan ACADEMIC TRANSCRIPT

Registration No:

2016-UET-SCET-RYK-MECH-34

Student Name: Father Name:

Muhammad Bilal Ghulam Mustafa 3630321308339



Machine Tool and Machining

Machine Tool and Machining

Semester CH: 17.0 Cum CH: 86.0 GPA: 3.576

ME-331

ME-331L

2.0 B+

1.0 В

CGPA: 3.385 Status: Promoted

6.6

3.0

Session:

2016

Program:

**B.Sc Mechanical Engineering** 



Mode of Study: Regular		Page 1 of 1			
Course Code	Course Title		СН	Grad	e GPs
S 2010					
Spring 2019 MA-345	Numerical Methods in Computing		3.0	A	12.0
MA-345L	Numerical Methods in Computing		1.0	B+	13
ME-323	Machine Design and CAD-II		3.0	B+	99
ME-323 ME-323L	Machine Design and CAD-II		1.0	B+	3.3
ME-323L ME-324	Theory of Machines-II		3.0	Λ-	11.1
ME-324 ME-324L	Theory of Machines-II		1.0	Λ-	3.7
ME-324L ME-332	Metrology and Quality Assurance		2.0	R+	6.6
ME-3321	Metrology and Quality Assurance		1.0	B-	3.3
MGT-316	Project Management and Economics		3.0	B-	8.1
	.0 Cum CH: 104.0 GPA: 3.406	CGPA:	3.388 St	atus: P	romoted
Fall 2019	o camera rond direction				
ME-411	IC Engines		2.0	B	6.0
ME-411L	IC Engines		1.0	Α	4.0
ME-414	Energy Resources and Utilization		2.0	В	6.0
ME-421	Mechanical Vibrations		2.0	C+	4.6
ME-424	Advanced Mechanics of Materials		2.0	B+	6.6
ME-424L	Advanced Mechanics of Materials		1.0	A-	3.7
ME-441	Instrumentation and Control		2.0	В	6.0
ME-441L	Instrumentation and Control		1.0	A	4.0
ME-498	Project I		3.0	Λ-	11.1
Semester CH: 16	.0 Cum CH: 120.0 GPA: 3.250	CGPA:	3.370 St	ntus: P	romoted
Spring 2020					
ME-412	Refrigeration and Air Conditioning		3.0	13+	9.9
ME-412L	Refrigeration and Air Conditioning		1.0	A-	3.7
ME-413	Power Plants		3.0	B4	9.4

Degree Complete

Power Plants

Project II

Semester CH: 16.0 Cum CH: 136.0 GPA: 3.588

Finite Element Analysis

Finite Element Analysis

Production and Operations Management

Admin. Officer (Exams) for Controller of Examinations

CGPA:

1.0

2.0

2.0

1.0

3.0

3.396 Status:

۸-

3.7

8.0

7.4

3.7

11.1

ME-413L

MF-431

ME-451

ME-499

ME-451L

Dated: November 27, 2020

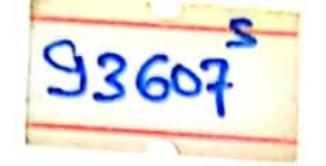
ADMINSTRATIVE OFFICER (Examinations)

University of Engineering and Technology, Lahore













ID. C1617754 Exp.10-Jul-22 ISSUE BY \ PETROKEMYA

محمد بیلام MUHAMMAD BILAM عامل



Nationalitu: Pakistan الجنسية: باكستان

National ID

الهوية الوطنية

loama:

3708331

النفامة

Blood Tupe:

8+

فصيلة الدم:

Contract Name:

EXPERTISE CONTR

اسم المقاول:

Contract No:

4801992238

رقم العقد:

ID Holder Sqinature

توقيع صاحب البطاقة

Security Dept. Signature:

توميع ادارة الأمن:

ADIL EID AL-MALKI

This card is properaty of PETROKEMYA. Use of this card for purpose other than authorized by PETROKEMYA is illegal and may subject the person to criminal prosecution under the law. If found, please contact: Arabian Petrochemical Co.

P.O. Box 10002 Al-Jubail Industrial City 31961

Tel: 013-3587000

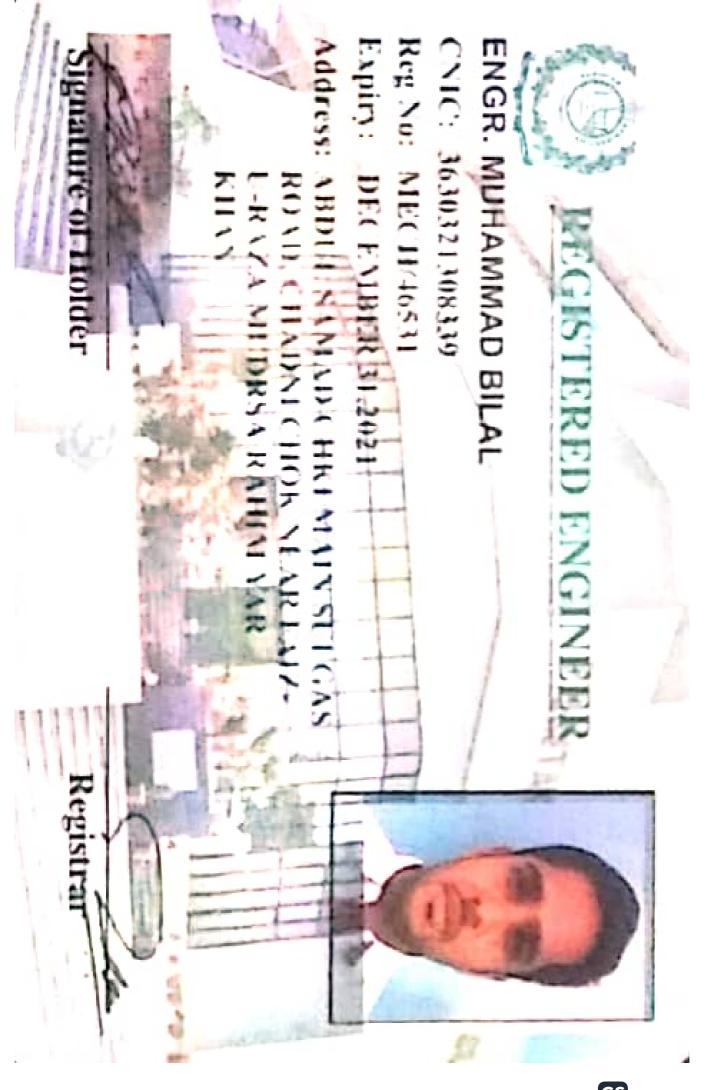
Serial No: J10 - 1617754

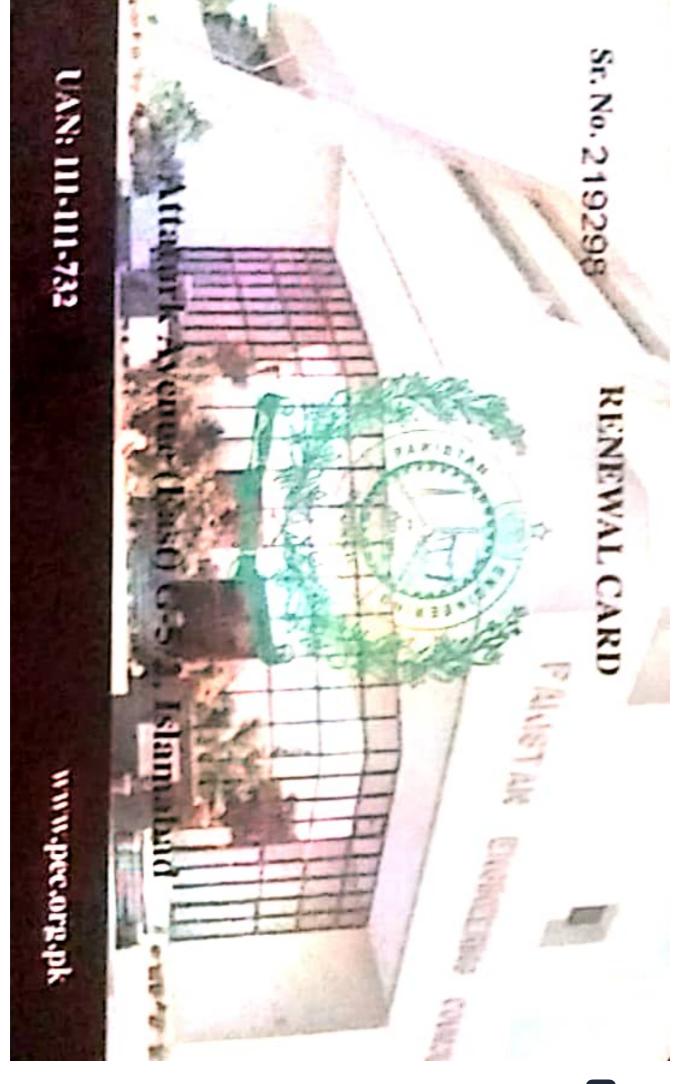
عادل عبد المالكي

هده انبطاقه من ممثلكات بتروکیمیا. ان استخدام هذه البطاقة للغراض اخرى غبر التى صرحت بها يتروكيميا غير فالوني وريما يخضع هذا الشخص للمحاكمة في ظل الفاتون غى حال العثور عليها يجب طلتصال على العنوان التالي ولشركة العربية للبنروكيماويات ئمىدوق بريد 1002 حبيل الصناعية31961

الف:013-3587000









EXPERTISE

CARD NO.

45650

# CONTRACTOR AUTHORIZATION CARD

ARABIAN PETROCHEMICAL COMPANY



MUHAMMAD BILAL

EJ3708331

NAME

BADGE NO.

IS AUTHORIZED TO	AUTHORIZED BY	EXPIRY DATE
PIPING FOREMAN	N	27-Mar-23
Authorization level or Category		

# سبابک عنمالہ





ID. 1799941 Exp.4/30/2023 Issued by: YANSAB

محمد بلال MUHAMMAD BILAL مرکب انابیب Pipe Installation ationality: Pakistan

الجنسية: باكستان

National ID/Igama:

3708331

الصوية الوطنية / الأقامة

Blood Type:

134

فصيلة الدم:

Energency No:

0568608777

رقم الطواري :

Contract Name:

شركة تمرس

/شِم المقاول:

Contract No:

4300534128

، 4العمد:

ID Holder Sginature

يع صاحب البطاقة

Security Dept. Signature:

Jan -

ومّيع إدارة الأمن: 🚤

HABEEB M. ALSUBHI

This card is properaty of

YANSAB, Use of this card for

purpose other than

authorized by YANSAB is

illegal and may subject the

person to criminal

prosecution under the law. If

found, please contact:

Yanbu National Petrochemical

Company

P.O. Box 31396

Yanbu Industrial City 41912

Tel: 014-3259000

Serial No: 1799941

حبيب محسن الصبحى

هذه البطاقة من ممتلكات

بنساب إن استخدام هذه البطاقة

''غراض اخرى غير التي صرحت بها

يتساب غير قانوني وربما يخضع

هذا الشخص للمحاكمة في ظل

القانون في حال العثور عليها

يجب الأتصال على العنوان التالي

شركة ينبع الوطنية

للبتروكيماويات

صندوق بريد 31396

ينبع الصناعية 41912

ھاتف: 014-3259000

# SSN1945-9098

## Certificate of Publication



THIS IS TO CERTIFY THAT NAAR EDITORIAL, ADVISORY, AND REVIEW BOARD ACCEPTED THE MANUSCRIPT OF DR./MR./MS.

Muhammad Imran Lashari, Hamza Naseer, Muhammad Bilal, Zohaib Ali, Quratulann Ilyas, Zakim Hussain, Hina farooq

Article: Design & fabrication of bismuth telluride (Bi2Te3) based small capacity peltier effect refrigerator

Volume: Vol 5, Issue 7; July 2022

**DOI:** North American Academic Research, 5(7) 01-16 July 2022, https://doi.org/10.5281/zenodo.6812204

Cite this article as: Muhammad Imran Lashari, Hamza Naseer, Muhammad Bilal, Zohaib Ali, Quratulann Ilyas, Zakim Hussain, Hina farooq; Design & fabrication of bismuth telluride (Bi2Te3) based small capacity peltier effect refrigerator; North American Academic Research, 5(7) 01-16 July 2022, https://doi.org/10.5281/zenodo.6812204

Prof Philip Cardinal, PhD

**EDITOR IN CHIEF** 







The World Association of Scientists & Professionals (TWASP); 34 Wolf Rd Colonie, NY 12205, United States

www.twasp.info || http://twasp.info/journal/home

editor@twasp.info II Phone: +1 (518) 458-8561







ID. C1799941 Exp.13-Sep-23 Issued by: HADEED

محمد بلال MUHAMMAD BILAL مركب انابيب Pipe Installation

الجنسية: باكستان Hatilian ... Pakistan

الهوية الوطنية / الأقامة National ID/Igama: 3708331

Blood Type: فحيلة الدمء رقم الطواري : Emergency No: 0568608777 اسم المقاول: Contract Name: شركة تمرس

رقم العقد: Contract No: 4300545363

توفيع صاحب البطاقة ID Holder Sginature

Security Dept. Signature:



توقيع إدارة النمن:

مغلح عايض الرشيدي

هده البطاقة من ممتلكات

حديد إن استخدام هنذه البطاقة

حديد غير فانوني وريما يخضع

هذا الشخص للمحاكمة في ظل

المانون في حال العنور عليها يجب الاتصال على العنوان التالي

MUFLLH A. AL-RESHEEDI

This card is properaty of HADEED. Use of this card for لأغراض اخرى غير التى صرحت بها

purpose other than authorized by HADEED is

negal and may subject the

son to criminal prosecution under the law. If

found, please contact:

يتبركه السعودية للحديد والصلب SAUDI IRON & STEEL CO.

وللحوق بريد 10053 P.O. Box 10053 Al-Jubail Industrial City 31961 لا الصناعية 31961

Tel: 013-3571400 Serial No: 1912873 013-3571400



#### مدير إدارة الأمن الصناعي والسلامة من الحريق

شرخة مصفاة أرامخو السعودية الجبيل Saudi Aramco jubail Rifinary Co.



مدينة الجبيل الصناعية الـ ١٥٦١ ط.ب مدينة الجبيل Jubail Industrial City 31961 P.O. Box 10088

يعتبر إستعمال هذة البطاقة من غير صاحبها تزويرا بعاقب عليه القانون وعلي من يجدها إعادتها للعنوان الموضح أعلاه

The use of this card by aperson other than its owner is considered forgery which is punished by law and whoever finds it shall return it to the above address

# TRAINING CERTIFICATE

No. CPC/2022/KSA/01

We certify,

Mr. Muhammad Bilal

ID # C1617754

Work for

THREE LIONS FACTORY

for successfully completing his training as a,

Wrapping Applicator Engineer

using CHASE Tape Wrapping System.

Ramy Hassanin

Regional Manager (MEASA)

A Chase Corporation Company

HARBOUR ROAD RYE, EAST SUSSEX, THUI 7TE

TEL +44 (0) 1797 220551 FAX +44 (0) 1797 224530

This certificate is issued in May 2022



