

CURRICULUM VITAE

ENGINEER ABDUL JALEEL

PhD Student

Metallurgy and Materials Engineering (MUET-Jamshoro)

Present Address: H/No#57, Yasrab Colony, Mahmoodabad, Mirpurkhas (Sindh), Pakistan

Permanent Address: Village haji kamal laghari, Deh-119, Old Mirpur, Mirpurkhas, Sindh.

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SUMMARY AND OBJECTIVE

- I have job experience in steel making, non-destructive testing, welding supervisor and teaching at different schools.
- I got training with certification of NDT UT, PT and RT (level-I and II) and welding supervisor from NCNDT Islamabad and ASNT.
- Teaching and research works are my passions. Hence, I do these works naturally.

KEY QUALIFICATION & SKILLS

ACADEMIC PERFORMANCE:

- **M.E. (Metallurgy & Materials Engineering)**, 3.27 CGPA, MUET Jamshoro in 2017.
Project was “*Optimization of Condition for Selective Dispersion of Synthetic Iron Ore Under Complex Condition*”.
- **B.E. (Metallurgy & Materials Engineering)**, 2.81 CGPA, MUET Jamshoro Pakistan in 2008.
Project was “*Microstructural Study of Air Craft Materials*”.

WORK EXPERIENCE

JOBS

Company: **The Hope School and College (SEF)**
Place: Mirwah Mirpurkhas
Designation: Lecturer (Chemistry and English)
Duration: since, 01 August 2022.
Contact address: Main campus Mirwah Gorchani Mirpurkhas.
(Sindh Education Foundation Govet of Sindh)
0313-3512236, 0300-3021461

Company: **SER (pvt) Ltd**
Place: Karachi
Designation: Sales and Service Supervisor of (NDT instrumentation and service)
Duration: Contract on work basis since 2019.
Contact address: 0300-8255967, Alidad_24@hotmail.com

Company: **InspecTest pvt ltd**
Place: 18 KM, Ferozepur Road, Lahore
Designation: UT, PT and Visual inspector. Loading and unloading supervisor
Duration: Contract on work basis since 2018.

Company: **Wajedo International Corporation Private Limited.**
Place: SUIT, 402, 4th Floor, Crystal Court, BC-7, B-5, Clifton Karachi.
Designation: Welding supervisor
Duration: 11 October 2011 to 30 June 2012.

Description of Duties.

1. Visual inspection of welds, position of welders and final ultrasonic of pipes.
2. To measuring the thickness of pipes 16’, 18’, 20” and 26” inches of API 5LX pipes.

Reason for leaving: Not satisfied.

Company: **Govet: of Sindh, District Office Building (W&S).**
Place: Near State Life Building Mirpurkhas.
Designation: Trainee Engineer
Duration: 13 May 2010 to 12 May 2011.

Description of Duties:

1. Engineering Drawing and Drafting by AutoCad software.
2. To making rough cost estimates of civil road and building works by using excel software.

Reason for leaving: NIP program contract end.

Company: **Shah Abdul Latif Private High School Mirpurkhas**
Place: Akhter Colony, Nooriabad, Mirpurkhas.
Designation: Teacher
Duration: 01 August 2009 to 01 May 2010.

Company: **Magna Steel Mill (Pvt) Ltd.**
Place: 86KM away from Karachi, highway, Nooriabad.
Designation: Trainee Engineer
Duration: Sep-2008 to July-2009

Description of Duties:

1. To produce the alloy steel of required grade from Electric Arc Furnace and Induction Furnace, and to maintain the alloy composition by adding ferroalloys.
2. By Spectro and analytical chemical methods to find the composition of heat, final product and raw materials. Such as lime, coal, iron ores, refractory bricks etc. That type of duties helps to quality department and purchasing department.
3. By controlling the casting speed to continuous casting to produce billets.
4. Inspection of product by NDT methods.
5. Rolling the billets to produce bars and wires and then finally Destructive testing.

Reason for Leaving: Company was closed.

Company: **Peoples Steel Mills Ltd.**
Place: 86KM away from Karachi, highway, Nooriabad.
Designation: Trainee Engineer
Duration: 04 weeks (on 14th July 2006).

Description of Duties:

1. To produce the alloy steel of required grade from Electric Arc Furnace and Induction Furnace, and to maintain the alloy composition by adding ferroalloys.
2. By Spectro and analytical chemical methods to find the composition of heat, final product and raw materials. Such as lime, coal, iron ores, refractory bricks etc. That type of duties helps to quality department and purchasing department.
3. By controlling the casting speed to continuous casting to produce billets.
4. Inspection of product by NDT methods.
5. Rolling the billets to produce bars and wires and then finally Destructive testing.

Reason for Leaving: Company was closed.

Company: **Atlas Cable Plant (PVT) Ltd.**
Place: Kottri, Jamshoro.
Designation: Trainee Engineer
Duration: 02 weeks (On 19th December 2005)

Description of Duties:

To

Reason for Leaving:

RESEARCH PUBLICATIONS ON JOURNALS

1. Yameen Solangi ^a, Umair Aftab ^a, Aneela Tahira ^c, Abdul Hanan ^d, Monica Montecchi ^f, Luca Pasquali ^{f g h}, Matteo Tonzzer ^k, Raffaello Mazzaro ^e, Vittorio Morandi ^e, **AbdulJaleel L aghari** ^a, Ayman Nafady ^j, MuhammadIshaq Abro ^a, Melanie Emo ⁱ, Brigitte Vigolo ⁱ, Elmue

z Dawi¹, Elfatih Mustafa^m, Zafar Hussain Ibupoto “**In-situ growth of nonstoichiometric CrO_{0.87} and Co₃O₄ hybrid system for the enhanced electrocatalytic water splitting in alkaline media**’ *Int. J. Hydrogen Energy*, **2023**.

2. **Laghari, A.J.**; Aftab, U.; Shah, A.A.; Solangi, M.Y.; Abro, M.I.; Al-Saeedi, S.I.; Naeim, N.; Nafady, A.; Vigolo, B.; Emo, M.; Molina, A.I.; Tahira, A.; Ibupoto, Z.H. Surface Modification of Co₃O₄ Nanostructures Using Wide Range of Natural Compounds from Rotten Apple Juice for the Efficient Oxygen Evolution Reaction. *Int. J. Hydrogen Energy*, **2023**, 1–13.
3. Hanan, A.; Solangi, M.Y.; **Jaleel laghari**, A.; Shah, A.A.; Aftab, U.; Ibupoto, Z.A.; Abro, M.I.; Lakhan, M.N.; Soomro, I.A.; Dawi, E.A.; Al Karim Haj Ismail, A.; Mustafa, E.; Vigolo, B.; Tahira, A.; Ibupoto, Z.H. PdO@CoSe₂ Composites: Efficient Electrocatalysts for Water Oxidation in Alkaline Media. *RSC Adv.*, **2023**, *13*, 743–755.
4. Abdul Hanan^a, Dong Shu^a, Umair Aftab^b, Dianxue Cao^a, **AbdulJaleel Laghari**^b, Muhammad Yameen Solangi^b, Muhammad Ishaque Abro^b, Ayman Nafady^c, Brigitte Vigolo^d, Aneela Tahira^c, Zafar Hussain Ibupoto “Co₂FeO₄@rGO composite: Towards trifunctional water splitting in alkaline media”
5. **A.J. Laghari**, U. Aftab, A. Tahira, A.A. Shah, A. Gradone, M.Y. Solangi, A.H. Samo, M. kumar, M.I. Abro, M. wasim Akhtar, R. Mazzaro, V. Morandi, A.M. Alotaibi, A. Nafady, A. Infantes-Molina, Z.H. Ibupoto, MgO as promoter for electrocatalytic activities of Co₃O₄–MgO composite via abundant oxygen vacancies and Co²⁺ ions towards oxygen evolution reaction, *Int. J. Hydrogen Energy*. (2022).
<https://doi.org/10.1016/j.ijhydene.2022.04.169>.
6. A.H. Samo, U. Aftab, M. Yameen, **A.J. Laghari**, M. Ahmed, M.N. Lakhan, A.H. Shar, A. Asif, A. Ali, MAGNESIUM DOPED COBALT-OXIDE COMPOSITE, 210–216. *Journal of Applied and Emerging Sciences Vol (11), Issue (02) [210]*, <https://dx.doi.org/10.36785/JAES.112519>.
7. Hanan, A., **Laghari, A. J.**, Solangi, M. Y., Aftab, U., Abro, M. I., Cao, D., Ahmed, M., Lakhan, M. N., Ali, A., Asif, A., and Shar, A. H. (2022). CDO/CO₃O₄ Nanocomposite as An Efficient Electrocatalyst for Oxygen Evolution Reaction in Alkaline Media. *International Journal of Engineering Science Technologies*, *6(1)*, 1-10. doi: <https://10.29121/IJOEST.v6.i1.2022.259>.
8. Z. Hussain, A. Tahira, A. Ahmed, U. Aftab, M. Yameen, **J. Ahmed**, A. Hanan, A. Liaquat, M. Ali, R. Mazzaro, V. Morandi, M. Ishaq, B. Vigolo, A. Nafady, A.M. Al-enizi, NiCo₂O₄ nanostructures loaded onto pencil graphite rod : An advanced composite material for oxygen evolution reaction, (2021). DOI: <https://10.1016/j.ijhydene.2021.12.024>.
9. Abro, M. I., **Laghari A. J.**, Aftab U., Channa S. A., and Mukesh K “**Selective Flocculation Study of hematite in hematite-quartz-kaolinite system in presence of Ca²⁺, Mg²⁺ and Fe³⁺ ions: Part 1. Optimization of ligand**” *Mehran University Research Journal of Engineering and Technology*, Vol. 40, No. 3, 531 - 538, July 2021, DOI: <https://doi.org/10.22581/muet1982.2103.07>.
10. Muhammad Yameen Solangi¹, Abdul Hanan Samo², **Abdul Jaleel Laghari**¹, Umair Aftab¹, Rehan Ali Qureshi¹, Muhammad Ishaque Abro¹ Muhammad Imran Irfan³ “MnO₂@Co₃O₄ nanocomposite based electrocatalyst for effective oxygen evolution reaction”. *Vol. 5 No. 1 (2022): Sukkur IBA Journal of Emerging Technologies (SJET)*.
11. **Abdul Jaleel Laghari**¹, Abdul Hanan², Muhammad Yameen Solangi¹, Umair Aftab¹, Muhammad Ishaque Abro¹ “CdO/Co₃O₄ nanocomposite as an efficient electrocatalyst for water oxidation *Vol. 4 No. 1 (2021): Sukkur IBA Journal of Emerging Technologies (SJET)*”

PAPER SUBMITTED ON CONFERENCES.

1. **Abdul Jaleel laghari**, Muhammad Yameen Solangi, Abdul Hanan Samo , Fida Hussain Channa, Mukesh Kumar, Muhammad Ishaque Abro, Umair Aftab, Zaffar Hussain Ibhupoto “**Synthesis Co₃O₄ nanoparticles from Alvera extract as efficient green electrocatalyst for oxygen evolution reaction**” 1st International Conference on Advanced Materials and Emerging Technologies (28-29 July 2021), Department of Metallurgy and Materials, MUET-Jamshoro, sindh, Pakistan.
2. **Abdul Jaleel laghari**, Muhammad Yameen Solangi, Abdul Hanan Samo, Umair Aftab “**Highly efficient DOPED cdO-Co₃O₄ electrocatalyst for Oxygen evolution reaction**” 1stInternational Conference on Advances in Material Sciences and Environmental Engineering – (ICAMSEE 2021), NED University of Engineering and Technology Karachi, Pakistan (June 25-26, 2021).
3. Abdul Hanan Samo, Umair Aftab, Muhammad Yameen Solangi, **Abdul Jaleel laghari**, Mukhtiar Ahmed, Muhammad Nazim Lakhani, Ali Asif, “**Magnesium Doped Cobalt-oxide Composite For Active Oxygen Evolution Reaction**” 1stInternational Conference on Advances in Material Sciences and Environmental Engineering – (ICAMSEE 2021), NED University of Engineering and Technology Karachi, Pakistan (June 25-26, 2021).
4. Muhammad Yameen Solangi, Abdul Hanan Samo, **Abdul Jaleel laghari**, Umair Aftab, Muhammad Ishaque Abro, “**Facile MnO₂/Co₃O₄ Nanocomposite Electrocatalyst for water Oxidation Reaction**” 1stInternational Conference on Advances in Material Sciences and Environmental Engineering – (ICAMSEE 2021), NED University of Engineering and Technology Karachi, Pakistan (June 25-26, 2021).
5. **A.J. Laghari**, M.I. Abro, Umair aftab, M.M.baloch and S.A.Channa. “**The effect of polyvalent metal ions on zeta potential study of hematite, quartz, kaolinite, calcite and fluorapatite minerals**” 1st international Conference on Advance Materials and Processing 2017, (ICAMP’17) 28th Feb to 2nd March, 2017, MUET-jamshoro.

COURSES / INTRENSHIP / SEMINAR / WORKSHOP / CONFERENCE / CERTIFICATE/ ACHIEVEMENT:

Institute	Seminar / Conference / Workshop	Duration	Description
Pakistan Engineering Council	Live Webinar Workshop Planning & Design of Micro Hydropower Plant	One day (16-July-2022)	1 CPD point
IEEE Universiti Teknologi PETRONAS	Live Webinar Nano Tecnology for Renewable Energy	One day (10-April-2021)	Participation Certificate
Department of Metallurgy and Materials, MUET-Jamshoro, sindh, Pakistan.	1 st International Conference on Advanced Materials and Emerging Technologies	(28-29 July 2021)	Author of papers
NED University of Engineering and Technology Karachi, Pakistan	1 st International Conference on Advances in Material Sciences and Environmental Engineering	(June 25-26, 2021)	Author of papers
NTS	Gat Pass General	2021	NTS
National Centre for Physics, Islamabad, Pakistan	Conference	05 days 21 th oct to 25 th oct 2019	16 th International Symposium on Advanced Materials
NED university of Engineering and Technology	Project work / Internship	06 days 4 th January to 9 th January 2019.	Sukkur Bridge Steel gate (NDT) Inspection.
Microsoft Office Specialist	Office Power Point 2013	01 day 20 th December 2018	1 CPD point Exam
Microsoft Office Specialist	Office Word 2016	01 day 20 th December 2018	1 CPD point Exam

Pakistan Engineering Council, Islamabad	Introduction to Integrated Management System (ISO-9001, ISO-14001 & BS-OHSAS-1801)	01 day 26 th November 2018	1 CPD point Course
Mehran UET-Jamshoro	Corrosion protection and Techniques	01 day 14 th November 2018	1 CPD point Course
Pakistan Council of Scientific and Industrial Research Karachi.	Mineral Resources Utilization for Sustainable Environment and Economic Development	01 day 17 th October 2018	1 CPD point Seminar
Dawood UET Karachi	Research Tools	03 days 2 nd October to 4 th October 2018	1 CPD point Course / Workshop
Mehran UET Jamshoro	How to write research paper	01 day 27 September 2017	1 CPD point Course / Workshop
Mehran UET Jamshoro	1 st International conference on Advance Materials and Processing	04 days 28 th February to 2 nd March 2017.	Author in Conference One 1 CPD point
DOMINO Hyderabad	English Language Course	04 months June to September 2016.	Course
DOMINO Hyderabad	2 Days Intensive Teachers Training workshop	02 days 23 to 24 th July 2016.	Workshop
Mehran UET Jamshoro	1 st National Conference on Metallurgy and Materials Science	01 day 25 th March 2015.	As organizer 0.5 CPD point
National Center for Non-Destructive Testing, Pakistan Atomic Energy Commission, Islamabad	Ultrasonic Testing Level-I	04 weeks 16 th November 2011	NDT course
American Society of Non-destructive testing	Ultrasonic Testing level-II	04 weeks 10 th t January 2011.	NDT course
National Center for Non-Destructive Testing, Pakistan Atomic Energy Commission, Islamabad	Ultrasonic thickness and crack depth measurement	04 days 15 th March 2010 to 18 th March 2010.	Workshop
Skill Development Council, Karachi	AutoCAD 2D / 3D	08 weeks 21 st November 2009 to 10 th January 2010.	Training / Course.
Pak Swiss Testing Center, Pakistan Council of Scientific and Industrial Research, Karachi	Computer Aided Manufacturing (CAM) for manufacturing of mold and dies and other tools	04 weeks 4 th November 2009.	Training / Course
Govet: Shah Abdul Latif college, Mirpurkhas, Sindh.	Diploma of Information Technology	12 months 2002 to 2003	Diploma

PERSONAL INFORMATION

Father Name: Abdul Razzaque Laghari Baloch
Date of Birth: 25th March 1985
CNIC: 44103-7500308-1
Passport Number: DN1073081
PEC Number: Metal/2196
Nationality: Pakistani
Marital Status: Married.

REFERENCES:

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