

MUHAMMAD WASIQ ALI KHAN

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OBJECTIVE

Seek suitable position in a reputable organization, with an opportunity of growth and career advancement as successful achievements. Utilize my knowledge, skill and abilities which contribute to the growth of organization.

SUMMARY

Around 6 years of experience, in production of ferrous and Non-Ferrous materials (Cast iron, steel and Aluminum), Melting and casting of Grey cast Iron, Aluminum alloys, Destructive and Non-destructive testing techniques of materials, Macro and micro examination of various failure components. Supply chain (purchase of materials), Technical Audit, Material Inspection, failure investigation and review of bid document related to Design and Construction activities etc.

QUALIFICATION

- **Masters of Engineering (Materials Engineering) from NEDUET 2015.**
- **Bachelors of Engineering** from NED University of Engineering and Technology in year 2010.

TRAINING

- Non Destructive Testing – Method and Techniques
- Supervisory leadership course (Atlas Group)
- Project Management Methodology
- Stress and Time Management (PPL).
- M.S. OFFICE
- 5S and HSE
- SAP Training
- Powerful Public Speaking & Presentation Skills.
- Improving Personal Effectiveness.
- Production planning activities.

FAMILIARITY WITH CODES AND STANDARDS

Various grades of steel, Cast iron and Aluminum including (SS-316L , ASTM Standards, ASME etc.

Masters of Engineering Thesis:

Synthesis and Characterization of AC8H (Al-Si Alloy) Honda Motorcycle Piston

Analysis of various phases of Al-Si alloy material AC8H

Quantify the percentage of that phase.

Analysis of mechanical properties of that Product

FINAL YEAR PROJECT (B.E)

Qualitative and Quantitative Analysis Of Phases in Materials.

Analysis of various phases of tool steel.

Quantify the percentage of that phase.

Analysis of mechanical properties of that material

Responsibilities at NED University of Engineering & Technology

NED University provides best learning environment to its students and researchers. The university has state of the art laboratories for use by the students, faculty and industry.

MATERIALS ENGINEERING DEPARTMENT:

Faculty member in Undergraduate program of Materials Engineering department.

Cover experience as a course teacher in various engineering courses (Physical metallurgy, Inspection and testing, Fracture Mechanics and Failure Analysis etc).

Responsibilities at Karachi Shipyard & Engineering Works Limited

Karachi Shipyard is one of the organization works under the Ministry of Defense Production, my roles and responsibilities are mentioned below:

QUALITY CONTROL DEPARTMENT:

Foundry Inspection including Melting and Casting of Materials.

Material Characterization of Ship building Projects as per as BV Surveyor requirements

Work on Evaluation of different Material evaluation techniques in Shipyard.

Perform and monitor Non Destructive Testing operations on different Ship building projects.

Interpretation of adopting ISO 17025 procedure in Karachi Shipyard Laboratory with Quality Assurance.

Defect analysis of incoming ship raw material and report to Surveyor.

Responsibilities at Orient Automotive Industries

Orient Automotive Industries is one of the Organizations of Tractor Assembling under IMT.

QUALITY ASSURANCE DEPARTMENT:

Monitor proper part inspection at Incoming stage.

Implanting advanced Material Testing techniques for part inspection.

Failure analysis of Field failure parts of tractors.

Provide technical Support for problematic parts during manufacturing.

Help out Quality Control Department in Problem Solving.

Responsibilities at YAMAHA Motor Company Pakistan

YMPK is the Newest Company in Pakistan established by YAMAHA Motor Company Japan, my roles and responsibilities are mentioned below:

DEVELOPMENT DEPARTMENT:

Develop and Localize New Motorcycle parts.

New vendor Selection.

New parts mold production.

Development of future Die Casting Parts.

Material Selection for Cold rolled Sheet conversion from Hot-Rolled.

Quality control evaluation at different stages of manufacturing.

Responsibilities at Atlas Engineering Limited

AEL is the oldest Company in Pakistan formerly (ALLWIN), my roles and responsibilities are mentioned below:

ALUMINIUM PRODUCTS

Perform Aluminum parts castings (Pistons for motorcycle, child parts) by Gravity Die casting.

Manage the die management activities.

Control heat treatment operations, by using the resistant heating furnaces.

Reduce the energy consumption of resistant heating furnaces by proper and effective utilization of molten Al-Si alloy.

Reduce rejection percentage of casted parts.

Ensure best pouring and casting operation by using the new technology of GBF Treatment of removing gases from molten Aluminum alloy.

CAST IRON FOUNDRY

Plan, execute and manage the charge (raw material, pig iron, scrap) to be charge in to the induction melting furnace to achieve the white cast iron, after further it is converted in to Grey cast iron .

- Effective pouring and casting of cast iron parts (Honda cylinder 70/100, sleeve CG-125).
- Control the rejection status of final product and maintain the desired QCD level.
- Preparation of resin coated sand through silica sand and used it for shell molding operation
- To check the mechanical testing of final product (Hardness and tensile testing)
- To check the chemical composition of molten metal or final product through chemical SPECTRO Analysis.
- To control the unit consumption of K.E.S.C power supply require to melt the charge.
Manage the furnace perform ability in the right way to ensure the higher productivity of melting
- To implement 5S & HSE on the shop floor as per company system.

- Involve in preparation of annual audit plan of related to procurement of material, consumables, and construction / fabrication work.
- Developing and maintaining records of making patterns and dies involving mold preparation.
- Checking incoming materials as per codes and process standard specifications and dimensional checks as per approved drawings.
- Prepare specifications complying to codes and standards regulation and company requirements
- Prepare budgetary estimates for mechanical jobs as required by the operation departments.
- Provide assistance in Implementing Health, Safety and Environment Protocols in all construction activities for accident free operations.
- Ensure compliance of HSE policies and procedures by contractor staff during project execution phase at Site.
- Reporting all incidents including near misses to manager HR for record and onward communication to contractors for remedial actions.

RESPONSIBILITIES AT BOLAN CASTINGS LIMITED

BCL is the leading manufacturer of automobile parts, my roles and responsibilities are mentioned below.

- Supervise production planning and material control activities regarding supply chain department .
- To be work with materials management including spares and raw material.
- Daily reporting to top management about concern issues.
- Procurement of imported and local parts through SAP.
- To negotiate with vendors about materials and spare purchase.
- Capacity Planning and Forecasting of future production
- To arrange the requisition as per as desired or need of department.
- To develop new technologies of material selection based on application.
- Enhance better material specification as to consider it for best service ability.
- To purchase the best material and spare as to consider the cost benefit and strength to weight ratio of material.

PERSONAL TRAITS AT WORKPLACE

- Microsoft Office: PowerPoint, Word, Excel, Access.
- Excellent analytical, problem-solving, and decision-making skills.
- Excellent verbal, oral, and written communication skills. Good presentation skills.
- Excellent interpersonal skills with ability to gain the confidence and respect of senior executives.
- Ability to communicate with and work with staff at every level of the organization.

INTERNSHIP

- Internship In **Pakistan Steel**, Karachi 1 Month , [June 2009]

At Pakistan steel following departments visit during internship program:

- 1) Iron making department

- 2) Sintering plant
- 3) Coke oven battery
- 4) Cold rolling mill

- Internship at **P.I.A** , Karachi 1 Month , [June 2010]

At PIA following department visit during internship program:

- 1) White body engine department
- 2) Engineering and services
- 3) Non Destructive testing (N.D.T)

PROFESSIONAL EXPERIENCE

<u>Period</u>	<u>Employer</u>
Nov 2018___ Till Now	NED University of Engg & Tech (Lecturer Materials Engg Dept)
Dec 2016 ___ Oct 2017	KARACHI SHIPYARD & ENGG WORKS (Asp Quality Control)
April 2016 – DEC 2016	ORIENT AUTOMOTIVE INDUSTRIES (Sr. Assistant Manager)
July 2015 – Dec 2015	YAMAHA MOTOR COMPANYPAK (Assistant Manager)
Oct 2011-July 2015	ATLAS ENGINEERING LIMITED (Assistant Manager)
Mar 2011- Sep2011	BOLAN CASTINGS LIMITED (Trainee Engineer)

PERSONAL INFORMATION

- Father's Name Late Hafiz. M Tahir Ali Khan
- Marital Status Un-Married
- Domicile Karachi
- N.I.C Number 42201-4976208-7