**Mirza Farrukh Baig**

**JOB TITLE: Process Engineer**

**Bio Data D.O.B.:** March 26, 1989

**Nationality:** Pakistani

**Marital Status:** Married

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**Objective**

A challenging job that would enable me to practice and further enhance my qualitative quantitative and organizational skills backed by strong managerial acumen. To make use of my experience, both in the design and commercial fields supported by strong personal attributes like hard working and excellent “Presentation and communication skills” that help me to be persuasive and ultimately reach a top managerial position.

**Education**

**2014– 2017 Master of Engineering Science**

Multimedia University, Melaka, Malaysia.

**2008 – 2011 Bachelor of Engineering in Chemical and Process Engineering**

NED University of Engineering and Technology, Karachi, Pakistan.

Major Courses: Polymer and Petrochemical Engineering

**2005 – 2007 Higher Secondary School Certificate (Pre-Engineering)**

Adamjee Government Science College, Karachi, Pakistan.

**2003 – 2005 Secondary School Certificate (SSC Science Stream)**

Royal Academy School, Karachi, Pakistan.

**Work Experience**

**December 2017- Ongoing**

**Graduate Research Assistant (Multimedia University, Malaysia.)**

I am working as a research assistant to pursue my Ph.D. on convective heat transfer and analyzing an analytical solution for viscous dissipative term in a porous medium.

Course Tutor for Heat Transfer and Fluid Dynamics.

Lab instructor for Heat Transfer and Fluid Dynamics.

**May 2017- December 2017**

**Process Engineer – Macpac Films Limited (Karachi, Pakistan)**

Macpac Films Ltd is the pioneer of BOPP (Biaxially-oriented polypropylene) films in the local manufacturing arena, offering its customers with the highest quality products. For more than two decades, the company has stood for quality in sealable, plain and value-added films.

The key responsibilities were:

To ensure the production according to the set parameters and maintain the quality of product according to their standard.

To ensure the availability of materials for daily production.

To control the set parameters for production.

To generate reports on the Bizz Trax Software.

To prepare reports on daily production and wastage.

To troubleshoot the problems if any.

Working on ISO Certifications (QMS 9001:2015, EMS 1401:2015, FSSC 22000:2005).

**May 2014- May 2016**

**Graduate Research Assistant (Multimedia University, Malaysia.)**

I worked as a research scholar on convective heat transfer to analyze an analytical solution for viscous dissipative term in a porous medium. The aim of this study is to give an accurate thermal performance of heat sinks, heat pipes and packed bed heat exchanger.

Course tutor for Engineering Drawing I and Introduction to computer integrated manufacturing (CIM).

Lab instructor for heat transfer and Autodesk Inventor 2015.

**November 2013- April 2014**

**Process Engineer – Tri-Pack Films and Packaging (Pvt.) Ltd (Karachi, Pakistan)**

TheTri-Pack Films Limited (Tri-Pack), a public limited company, is a joint venture between Mitsubishi Corporation of Japan and Packages Limited of Pakistan. Tri-Pack was incorporated in Pakistan in 1993 and commenced commercial production in 1995. The key responsibilities were:

* To ensure the production according to the set parameters and maintain the quality of product according to their standard.
* To ensure the availability of materials for daily production.
* To control the set parameters for production.
* To generate reportson the SAP Software.
* To prepare reportson daily production and wastage.
* To troubleshoot the problems if any.

**May 2012- November 2013**

**Production Engineer – Automotive Spares & Accessories (Pvt.) Ltd (Karachi, Pakistan)**

Automotive Spares and Accessories (ASA) is a sister company of Pak Carpet Industries Group. ASA entered the automotive industry by becoming supplier of automotive floor carpet to Pak Suzuki Motor Company in 1985. Currently ASA is dealing with Soft parts, Injection Molding, Blow Molding and Vacuum forming Parts. Participated in the 20thQuality Circle Convention (QCC) 2013 organized by Indus Motor Company (IMC) and achieved the 2nd Position. The key responsibilities at ASA were:

* To supervise and manage manufacturing cycle as per manufacturing schedule under controlled conditions.
* To ensure the manufacturing quality as per defined company manufacturing standards following standard manufacturing techniques.
* To develop and maintain SOP and work instructions in coordination with Quality Department.
* To work on the Environmental impacts in the organization and implement ISO-14001 in the organization.
* To work on the SAP Software and to generate the daily production report.
* To calculate the daily losses in production.
* To train the workers on KAIZAEN and 5’S activities.

**June2010- July2010**

**Internee – Pak Petrochemicals (Pvt.) Ltd (Karachi, Pakistan)**

Pak Petrochemicals is a producer high quality polystyrene materials. Key job task included to draw the PFD (Process Flow Diagram) for self-learning, to check the quality of products according predetermined standards by testing equipment.

### Academic Publications and Projects

### Thermal Viscous Dissipative Couette-Poiseuille Flow in a Porous Medium saturated channel

# This paper was published in Symmetry Journal.

### Thermal Viscous Dissipative Couette Flow in a Porous Medium Filled\_Microchannel

# This paper was published in the American Society of Mechanical Engineers (ASME) 2016 Fifth Micro/Nanoscale Heat and Mass Transfer International Conference, Biopolis, Singapore, 4-6 Jan. 2016, MNHMT2016-6502 and submitted as part of the master’s thesis completion.

### Final Year Project: Reforming of Naphtha to Produce High Octane Gasoline

# In this project, the team was assigned to work on the present process of National Refinery Limited (NRL) and give management a detailed calculations based on the Material Balance, Energy Balance, Process Flow Diagram, Reaction Chemistry, Design and Efficiency improvement of Equipment such as Heat Exchangers, Furnace and Distillation Column.

**Professional Training**

### Workshop on Process Excellence using Seven QC Tools\_\_\_\_\_\_

# Attended the workshop organized by Small and Medium Enterprises Development Authority (SMEDA), Ministry of Industries, Government of Pakistan.

### Training on Lean Manufacturing\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# The training was organized and conducted by the Automotive Spares and Accessories (ASA) Pvt. Ltd.to train employees for the removal of Seven Wastage’s from the process.

### Training on supervisory skills required for process manufacturing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# The training was organized by Pakistan Institute of Management (PIM), Ministry of Industries and Production, Government of Pakistan.

**Technical Skills**

* Good in AutoCAD Mechanical and AutoCAD Inventor.
* Basic programming skills in C/C++ and Assembly language.
* Excellent abilities with technical, manual and figure operations.
* Strong communication, customer service and administrative skills.
* Excellent organizational skills.
* Excellent inter and intra-personal skills

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| **Computer Language/Software** | **Skill Level** |
| Microsoft Office | Advance |
| Wolfram Mathematica | Advance |
| ASPEN HYSYS | Intermediate |
| MATLAB | Intermediate |
| C/C++ | Intermediate |

**Language**

**Skills**

|  |  |
| --- | --- |
| **Language** | **Skill Level** |
| English | Advance |
| Urdu-Hindi | Advance |

**Co-curricular Activities**

* Founder member of Society of Polymer and Petrochemical (SPPE).
* Received a letter of Appreciation and Medal from SPPE as a Best Member of Planning Committee.
* Organized and attend different seminars and workshop on skill developmentand management.
* Won Inter Department Cricket Tournament in University and got a Gold Medal.

**Referee**

**Dr. Chen Gooi Mee**

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