

Career Objective

A passionate Material Engineer extremely ambitious and goal oriented with a clear and concise vision of future objectives.

Education

2006-2007

MSc. Advanced Materials Engineering.

School of Engineering Design and Technology
University of Bradford, Bradford, United Kingdom.

Modules:

Material Engineering	Material Characterization
Material Failure Mechanics	Material Processing
Biotribology	Transport Process Modelling
Interdisciplinary Competitive Design I&II	PGD Project

2001-2005

Bachelor of Polymer Engineering.

Hamdard University, Karachi, **Pakistan.**

Industrial Training

New Allied Electronics Pvt Ltd (LG), Pakistan

Trainee Engineer

During training I worked on,

- Standard Injection Moulding.
- Gas Assist Injection Moulding
- Thermopore Factory.
- Paint Shop

Experience

June 2010 till to date: Assistant Professor (BPS-19)

May 2008-June 2010: Senior Laboratory Engineer (BPS-18)

Department of Polymer & Petrochemical Engineering.

NED University of Engineering & Technology Karachi.

- Responsible for arranging experimental work on different polymer processing machines i.e. Injection Moulding, Extrusion, Extrusion Blow Moulding and etc.
- Involved in purchasing of different materials & equipments

Final Project

(MSc AME)

3D simulations of gas assist injection moulding and experimental validation.

- Check the affect of gas pressure and gas delay time on the residual wall thickness of the part and compare the experimental and simulation work in order to check the validation of simulation software (MPI).
- **Material:** Talc filled Polypropylene
- **Processing equipment:** Gas Assist Injection Molding Machine
- **Simulation software:** Mold Flow Plastic Insight.

Design Project

(MSc AME)

Use of metallic and polymer foam in automotive body shell.

- Identify areas within a vehicle body shell which would benefit from the use of foam.

- Developed the concept designs to show these materials could be incorporated into vehicle structure.

Final Year Project

(BE –Polymer)

Design and development of O-Ring for two inch “Z” joint plastic pipe.

- **Product made:** O-Ring for 2 inch Z joint plastic pipe.
- **Materials:** Ethylene propylene diene monomer, styrene butadiene rubber, nitrile butadiene rubber and natural rubber.
- **Processing Equipment:** Two Roll Mill and Compression Moulding Machine.

Computer Proficiency

- MS Office (Expert)
Word, excel, access, power point and project

Material Engineering Software

- Image tool TM (Quantitative Image Analysis)
- Moldflow Plastic Insight (Simulation Software)