



# Insha Ur Rehman

Trainee Engineer

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@iur\_work

UK graduate, PEC registered. Talented in mechanical design, CAD, CFD, FEA, project management and software programming. Trained in manufacturing processes. Skilled in communication, team work and problem solving. Confident and hardworking.

## WORK EXPERIENCE

### Intern - Internship

Inter State Gas Systems (ISGS) Pvt. Ltd.

05/2018 – 08/2018

Islamabad, Pakistan

- Learned about pumps used in the oil industry, their types and classifications as per API 610 Standards.
- Learned about PSL1 and PSL2 pipe types.
- Studied and assisted in the revision of ISGS's HSE policy.
- Studied about process flow diagrams - PFDs and P&IDs
- Got introduced to formulae used for pipeline diameter calculations.
- Discussed contract drafts of project agreements with senior engineers for evaluation.
- Produced timelines for project tasks to be used in presentations.

### Office Administrator - Office Administration

Association of British Hujjaj (Pilgrims) UK

10/2016 – 07/2017

Birmingham, United Kingdom

- Part-time job, handled files and e-mails, wrote press releases.
- Assisted British Muslims in their pilgrimage journey to Makkah by giving awareness on possible difficulties, health and safety precautions, warning of fraud etc.
- Recorded complaints of pilgrims about travel operators' misconduct and lobbied British Police, MPs and Trading Standards to get rogue operators convicted in court.

### BP Workshop Training - Workshop Training

BP plc

06/2015 – 06/2015

Birmingham, United Kingdom

- Machined and assembled parts of a pipe vice, achieving first-hand experience in CNC manufacture, tolerances, lathing, drilling, threading and 5-axis machining.
- Learned industrial procedures and standards in manufacturing, HSE policies and precautions involved.

## EDUCATION

### BEng (Hons) Mechanical Engineering

University of Birmingham, United Kingdom

09/2014 – 07/2017

2:1 Degree, GPA Equivalent 3.7/4

- IMechE Accredited
- HEC Equivalency Gained

## SKILLS

- CAD
- Engineering Drawings
- Manufacturing
- FEA (Abaqus/CAE)
- CFD (ANSYS)
- MATLAB
- Risk Assessment and DFMEA
- Bill of Materials
- PFDs & P&IDs
- Design for Assembly
- CAE
- CNC Machining
- Problem Solving
- Teamwork
- HSE Awareness
- Decision Making
- Proactive
- Communication
- Business Awareness
- Project Management
- Organisational Skills
- Time Management
- Adaptability
- Mentoring
- Self-Motivation
- Programming
- MS Office
- Technical Writing
- Analytical Skills

## PROJECTS

### Hydro-Powered Water Filtration Unit (Design)

(01/2017 – 04/2017)

- at University of Birmingham (details on LinkedIn)

### Aero-Engine Speed Reducer (Design)

(01/2017 – 03/2017)

- at university of Birmingham (details on LinkedIn)

### Flight Control Actuator (Redesign for DFA)

(09/2016 – 12/2016)

- at University of Birmingham with Moog Inc (details on LinkedIn)

### Two Stroke Engine (Design) (09/2015 – 12/2015)

- at University of Birmingham (details on LinkedIn)

## CERTIFICATION

BP Workshop Training (06/2015 – Present)

## PROFESSIONAL REGISTRATION

Pakistan Engineering Council (02/2018 – Present)

Registered Engineer No. MECH/36728 (Lifetime)