Curriculum Vitae

Personal Details

Name : Hassan Raza
Father Name : Muhammad Raza
NIC : 37402-4123346-3
Gender : Male
Marital Status : Single
Date of birth : 05-10-1996
Postal Address : House No A-10, Sirsyed Blocks, KrL Colony, P.O. Sumbalgah, Tehsil Kahuta, District Rawalpindi.
Permanent Address : Village Chinji, Tehsil Talagang, District Chakwal .

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Career Objective

Working with an organization is easy process but working with honesty is the main aim which gives me opportunities to learn more and polishes myself.

Academic Records

Examination Passed	Science Subjects	Institute Attended	Year of Passing	Marks Obtained or gpa	Maximum Marks or gpa
SSC	Medical	KRL Model College for boys	2012	927	1050
HSSC	Pre-Engineering	KRL Model College for boys	2014	905	1100
Bachelors	Mechanical Engineering	Institute of Space & Technology	2018	3.08	4.00

Internships

Duration	Departments
4 weeks	Pakistan Institute Of laser & Optics (PILO) ,krl.
3 weeks	503 Qasim Aviation Base ,Rawalpindi.

Core Subject Studied

1st Year	Engineering Drawing & Graphics	Industrial Chemistry	Statics*	Workshop Technology *	CAD*	
2nd Year	Dynamics*	Workshop Technology *	Engineering Materials	Mechanic of Materials*	Thermo-dynamics*	
3rd Year	Fluid Mechanics	Machine Design *	Control Systems*	Heat and mass transfer*	Manufacturing process *	
4th Year	Mechanical Vibrations	IC engines	Powerplant	MBM	FEM	

Note: *with respected lab.

Management Skills

Events

- Organized International Conference named ICASE 2017 (International Conference on Aerospace Science and Engineering) in IST on behalf of IST Student Affairs Department.
- Organized Student Research Paper Conference SRPC 2017 in IST on behalf of IST Material Science and Engineering Department.

Projects

Semester Projects

- Wood lathe machine
- Hydraulic scissor lift
- Assembly and Analysis of Bolted Flange
- Marry Go Round
- Vibrations in Laith machine due to a small mass
- Theoratical calculations of different parameters for gas turbine cycle.
- Calculations of different Parameters for finned type heat exchangers.

Final Year Project

In aerospace applications composite material are extensively used as skin panel in air crafts. Composite materials are made up of fibers and epoxy. During the flight an aircraft experience a temperature range of -50^{o}C to 55^{o}C. Temperature variations during flight affect the mechanical properties of epoxy and introduce cracks. These cracks are the stress raisers towards the failure. In this study thermo-mechanical characterization of epoxy will be carried out at a temperature range of -50^{o}C to 55^{o}C. The effect of Nano-filler is demonstrated.

FYP Objective:

Thermomechanical Characterization of Nanoparticles Based Epoxy Resin for aerospace Applications.

Technical Skills

Technical Hand

- Universal Testing Machine (**UTM**)
- Milling Machine
- Drilling Machine
- Grinding & Polishing Machine
- Micro-Vickers Hardness (**MVH**) & Brinell Hardness Machine (**BH**)
- Sonicator
- Laser cutting and welding
- Lathe Machine: **Turning, Facing, Taper Turning, Threading, Grooving, Drilling**

Software Skills

- Microsoft office
- Matlab
- Ansys Workbench
- Creo Parametric
- Abacus

Interest and Activities

- Manufacturing
- Management
- Adventure Trip
- Photography
- Outdoor games