

Introduction:

Education:

- BSc. Mechanical Engineering at University of Engineering and Technology, Lahore. (2019-present)
CGPA: 3.825 (three times Dean's Honor Roll).
- FSc. Pre-Engineering at BISE-GRW. (2017-2019)
Grade: A+.
- Matriculation with major in mathematics and biology at BISE-GRW. (2015-2017)
Grade: A+.

Achievements:

- Working as Deputy Director Technical Section at ASHRAE Student Body, and directing following projects as a leader:
 - MATLAB simulation of a constant-RPM reciprocating engine using ideal gas as a working fluid.
 - Designing and manufacturing of a miniature jet engine.
- Managed an online competition as well as designed and tested problems related to structural analysis.
- Worked on following semester projects:
 - Overhaul of a Nissan L26 1.6L 6I engine.
 - Force and stability analysis of a generic ship crane.
 - Design and structural analysis of a reinforced-concrete passenger bridge.
 - Design and structural analysis of an overhead gantry crane.
 - Design and manufacturing analysis of a jet engine compressor.
- Worked on following side projects:
 - Designing and testing of a proof-of-concept de-centralized grid computing network.
 - Simulating a spur gear-train.
 - Comparing the dynamics of a slider-crank mechanism with a scotch-yoke mechanism.

Skills:

- Workshop skills (metalwork, woodwork, welding).
- Excel with VBA (honors certification from University of Colorado Boulder via Coursera).
- Siemens' TechnoMatix Plant Simulation.
- PLC Automation.
- C/C++/Assembly programming with experience in Arduino development.
- MATLAB.
- MathCAD.
- EES.
- Freelancing (certification from DigiSkills).
- Content writing (certification from Digiskills).

Extracurricular:

Competitive Clash Of Clans player; hobbyist chess and basketball player; hobbyist writer and poet.