Muhammad Hanzla Tahir, (Mechanical Engineer)

Contact Information:

Father Name:	Muhammad Tahir Usmani.
Date of Birth:	Jan 01, 1994.
Marital Status:	Single.
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Professional Objective:

To achieve a sound position in the corporate world and work enthusiastically with a team to achieve the goals of the organization.

Educational History:

- ✓ **(2017), BE (Mechanical Engineering)** **3.88 CGPA, (89.01 %)**
  - Balochistan University of Engineering and Technology Khuzdar.
- ✓ **(2013), (Intermediate)** **913/1100 Marks, (83.00%)**
  - Board of Intermediate and secondary education, Faisalabad.
- ✓ **(2010), (Matriculation)** **879/1050 Marks, (83.71%)**
  - Board of Intermediate and secondary education, Faisalabad.

Field of interest:

- ✓ Renewable energy system.
- ✓ Energy system.
- ✓ Thermal energy.

Final year project:

- ✓ We built a foundational prototype hover bike that lift a rider vertically from the ground. To accomplish this, there were four primary areas that needed to be developed: frame, battery, drive train, and propellers. These four systems and components are the foundation of our prototype of hover bike.
- ✓ The design of the hover bike is based on the goal of achieving a light weight, high load resistance, low cost and applications simple of simple structural concepts.
- ✓ The uniqueness of this vehicle is that there are no high end models at the present level.
- ✓ We claim that our hover bike have the efficiency of flying up to a maximum height of 10 meters. The structure is developed in a way to withstand a pressure which is able to overcome the overall loading of the driver and the engine together, to give out an efficient lift without causing any deformations in the structure.

Awards and honor:

- ✓ **Hafiz-e-Quran (2007).**
  It's my major achievement in my life.

Professional Skills:

- ✓ Good Command on MS-Office.
- ✓ Effective technical skills.
- ✓ The ability to work under pressure.
- ✓ Problem-solving skills.
- ✓ Creativity.
- ✓ Interpersonal skills.
- ✓ Verbal and written communication skills.
- ✓ Commercial awareness.
- ✓ Team working skills.

Extracurricular Activities / Hobbies:

- ✓ Reading Holly Quran, Translation and Tafseer.
- ✓ Reading newspaper & Surfing internet
- ✓ Playing Cricket.
- ✓ Community services, for example; helping juniors in study and career planning.

Communication Skills:

✓ Punjabi	Native
✓ Urdu	Native
✓ English	Medium

Work Experience:

- ✓ **Home tutor at Balochistan University of Engineering and Technology Khuzdar, (Aug, 2014 – Dec, 2017).**

- ✓ **Trainee Engineer at Hunza Siraj Sugar Mills Limited (01, Jan-31, March 2016).**

Learned about

- Preparation unit including crushing plant that crushes sugar cane 6200 tons/day, weight bridge used for weighting sugar cane trailer, hydraulic jack system, feeding table with leveler derived by gear and electric motor, belt drive with magnet and chain drive with slate, carrier and leveler #1 drive by electric motor, cane carrier and leveler #2 & 3 by steam turbine, shredder with 8 bar and 27 hammer/bar powered by steam turbine.
- Extracting unit including 5 mills unit used for juice extraction from cane particles, 4-5 rollers/ mill unit, mill #1 powered by crown gear with steam turbine, mills 2-5 powered by compact gear with electric motor, imbibition process (water temp 75C*), pumps (centrifugal, choke-less and lubrication type), 260-275 tons/h sugar juice supply to production unit, overhead crane used for shifting heavy objects like turbines/crown gears etc, head stock, inter carrier, bagasse elevator, bagasse drier and main bagasse carrier.
- Boiler unit in which boiler controlled manually and there are 2 boilers having capacity of 80 and 40 tons/h, bagasse used as a primary fuel, high pressure boiler i-e 24kgf/cm^2, water fed into boiler at 99.9 C* and leaves as a steam having temp (350+-10 C*), 80 tons/h boiler has 2380 m^2 heating surface while 40 tons/h has 1540 m^2, bagasse feeder, air heater, economizer, super heater, draft fans (induced fan, forced fan and secondary fan), valves (stop, no return and blow down),steam drum and mud drum and steam distributer header that distributes 110 tons/h steam to required space.
- Power unit having steam turbines controlled manually having capacity 6MW and 3.5MW with 4000 and 3000 r.p.m respectively.

- Production unit produces 11400-12600 sugar packets 50kg of each per day.

Affiliations:

- ✓ Member of Pakistan Engineering Council **(PEC) – MECH/37226.**

References:

- ✓ Will be submitted upon request.