Syed Muhammad Yasoob Abbas

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146 Q Block , DHA Phase 8 , Ex AirAvenue
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Pakistan

Objective

Highly ambitious driven Materials Engineer.Interested in developing and understanding new and advanced smart materials with the aim of sustainable development . Hands on professional experience in the engineering industry. Excellent analytical and problem solving skills. Good communicational skills with great understanding of professionalism and ethics.Looking to apply and polish my skills.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) — Topi, PK
Bachelors of Science in Materials Science and Engineering — 2020 - 2024
CGPA: 2.86/4.00

Beaconhouse Defense Campus — Lahore,PK
A Levels — 2018 - 2019
Result: Satisfactory

DHA Senior School — Lahore,PK
O levels — 2016 - 2018
Grades: 1A*, 4 A's, 3 B's

Work Experience

Packages Mall (Super Space) — Lahore,PK — 2018 - 2019
Worked with Arduino,Sensors,actuators while designing and programming the Horror House (Amusement Park)

Joyland — Rawalpindi,PK — 2019 - 2020
Designing, Building, Joining of Amusement Rides in Pakistan's Biggest Amusement Park

The Lit Tribe — Lahore, PK — 2020 - Till date
Started this own project by making customized Neon signs.Now it is much more than that.Corporate clients all over Pakistan .Very good experience in Facebook Marketing, Meta Ads, Campaigns, Social Media Handeling .

Academic Projects

Home Automation
Smart Home Project with Google Assistant & Alexa using Node MCU and other components. Voice activated commands which can be sent via your virtual Assistant (Google or Alexa)

Fabrication of Ni-Ti Shape Memory Allow using Electric Arc Furnace
Importance: Super-elasticity and shape memory Effect.
Equipment used: Electric Arc Furnace(EAF)

XRAY ANALYSIS OF HIGH TEMPERATURE OXIDATION OF ALUMINUM
All four samples of aluminum(oxidized at different temperatures) were analyzed by Xray Diffraction Technique and X'PERT HIGHSCORE PLUS software was used to identify and match the peaks

Identification and Evaluation of an unknown Metal/Alloy using Destructive and Non Destructive Techniques
Standard samples were manufactured in mechanical workshop for both destructive and non-destructive methods.

Improving the durability of concrete without sacrificing its other desirable properties, such as strength and workability
Provided a thorough Report on how to improve the durability of concrete.One Possible solution is the use of self healing concrete instead of ordinary concrete.One component healing agent PU(MP355) which is polymer of oxyacytene group and polyethene.

Using Microchips in Human body to enhance efficiency in terms of being connected to the cloud and being able to swipe across connected electronic devices
Provided a detailed report and presentation to the panel on the possibility of utilising microchips in the Human body to enhance connectivity and efficiency.Alongside all the advantages ,also covered the drawbacks and potential harm it can provide to a Human body.

Nanoscale Environmental Monitoring Sensor Development
By merging the fundamental principles of Nanoelectronics and Nanooptics provided a solution to create miniature, high performance Inductive Proximity sensor that detects any object that distrupts the inductance of the coil.

Awards & Achievements

- Awarded Scholarship for A levels
- Part of various Societies/Clubs (AIAA Gik chapter , CBS at Gik, MediaclubGIK)
- Certificate of Participation in Deep Intelligence, Hands on Experience Workshop
- Director Media Arts at MediaclubGIK

Skills

- Material Testing Techniques (NDT & DT)
- Alloy Production & Casting techniques | Heat Treatment of Steel & Aluminum
- Softwares : Gwyddion for AFM SPM , XPert Highscore+ for XRD ,Photoshop,Affinity Designer, Microsoft Office & others
- XRD , SEM & TEM analysis techniques