

MUHAMMAD UMER KHAN

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OBJECTIVE

To be a part of an organization where I will have an opportunity to polish my skills by working in a challenging environment. I am looking forward to give my best to add value to the company with my knowledge and experience to create a sustainable society.

EDUCATION

BE MECHATRONICS ENGINEERING • Air University Islamabad • 2014 -2018

CGPA = 2.73

FSc Pre Engineering • F.G Degree College For Men Wah Cantt • 2014

SSC (Biology) • P.O.F Model High School Wah Cantt • 2012

EXPERIENCE

INTERNSHIP - ELECTOMOTIVE Pvt Ltd Lahore - 2018

Object oriented programming , installation and manufacturing of smart switches.

INTERNSHIP - OGDCL Chanda -Mela Oil Field - 2017

Mechanical department, Instrumentation and Telemetry department and safety department.

WORK EXPERIENCE - SIGMA SOLUTIONS -2017

Installation and assembling of Laser Marking Machine at PAC Kamra (Aircraft Manufacturing Factory).

AIRTECH - Project Exhibition - 2017

Runner up in presenting Exoskeleton for Lower Limb Powersuit

AIRTECH AirBot - 2016

A competition for indigenous autonomous robots to plan their path and follow the shortest path accordingly.

PROJECTS

- **Automated Physiotherapy Device for Lower Limb(FYP)**
Feedback control of knee joint and user friendly interface machine for physiotherapy exercise of 1DOF movement.
- Design and fabrication of Axle for front wheel of **Vespa** scooter
- Design and fabrication of Complex periscope
- Hearing Aided Device
- Wall following robot
- Conveyor belt system for sorting items depending on height.
- Indigenous robot for path planning and map following
- PTCL billing system software on C++
- EXOSKELETON for Lower Limb Powersuit

TECHNICAL SKILLS

- CAD – AutoCAD, Solidworks, CATIA, ProE
- Analysis – ABAQUS, ANSYS, ADAMS
- Programming – MATLAB, C++, Java
- Data Acquisition - LabView
- ARDUINO IDE
- MS Office – (Word, Excel, Powerpoint)
- Engineering Drawing
- Basic Workshop Skills
- Mechatronics system designing (robot, automation system prototype, LEGObots)
- PLC programming (Siemens, Allan brad)
- FPGA programming (Verilog HDL)

SKILLS

- Leadership
- Resiliency
- Project Management
- Inventive
- Proactive
- Critical Thinking

INTERESTS

- Recreational Maths
- Time Travel, Particle Physics
- Sustainability
- Indie and Pop Music
- History
- Geography
- Strategy Based Video Games
- Football

RESEARCH PUBLICATION

Robot Assisted Physiotherapy Device For Knee Joint Rehabilitation

2018 7th International Conference on Mechatronics and Control Engineering (ICMCE 2018)

REFERENCES

Available on request.