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Tayyab Shahid

To become part of an environment where I can learn, explore and be part of a creative and innovative team.

EXPERIENCE

2025 - Present

GRADUATE RESEARCH ASSISTANT – Sarkey's Energy Center, OU

+ Developed the first prototype of Terra Stinger, a real monitoring system for better well integrity of CCS wells using multi-array sensors connected with Raspberry Pi.
+ Part of Forge project as electrical system and 3D printing engineer.

2021 – 2023

RESEARCH ASSISTANT– NCRA, Islamabad

+ Research Assistant at RDDL Lab under Unmanned Ground vehicles domain
+ Part of Research team in development of UGV for industrial and agricultural applications
+ Certified Industrial Collaborative Robot UR5 programmer.

2018-2021

VISITING FACULTY – National University of Science & Technology, Islamabad

+ Instructed Mechanical courses including Electronic Systems, Manufacturing Processes, Introduction to Robotics and many more.
+ Lead research associate at Robotics & Intelligent Systems Engineering

2012 - 2014

MECHANICAL DESIGN ENGINEER – Connekt Lab, Islamabad

+ Developed successful project including Reliable Monitoring of Oil and Gas sensor, funded by Saudi Aramco
+ Designed and fabricated the enclosure mounting for Safety Sensor in high stress environment or SAHSE for Coal Mines in Pakistan

EDUCATION

2025-Present **MS in Petroleum Eng.** – Mewbourne College of Earth & Energy, OU **(GPA: 4.00/4.00)**

2011-2014 **MS in Mechatronics Eng.** – CEME, NUST

2007-2011 **BE in Mechatronics Eng.** – CEME, NUST

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PROJECT

2025 **Terra Stinger:** A real time monitoring unit with Multi-array sensors that can detect CO_2 plume movement in CCS wells for better well integrity and storage.

2025 **Forge Project:** Part of a team as an electrical system engineer for geothermal unit and designing a mini-size Packer using 3D printer.

2025 **Rock-Types Predictor:** Developed a supervised classifier to predict the rock-types, after clustering them using K-means through Well Logs.

2023 **Gas tank shell Inspector:** Part of development team behind interfacing a mobile UGV with list of sensors to inspect gas storage tank shell.

2021 **UR-5:** Programmer of UR-5 CoBot at RDDL Lab

2015 **REMONG:** Developed a Reliable Oil and gas sensor system to measure the flowrate, temperature, pipeline inspection and other information.

2013 **SAHSE:** Manufactured an electronic system to provide safety assurance to coal miners against potential harmful gases like Methane and Carbon Monoxide

TECHNICAL SKILL

TOOL EXPERTISE: Python, UR Script, C Language for Raspberry Pi, Solid Works, Autodesk Fusion, CNC simulator, MATLAB, Bambu Lab, COMSOL Multi Physics

PUBLICATION

2021 Published a conference paper titled as "Joint angle estimation and control of a cable-actuated soft hand exoskeleton" at IEEE Conference (ICRAI'21) in Oct 2021

2016 Published a conference paper titled as "Optimization of SCR for Sensitivity Enhancement of Cantilever based Piezoresistive Sensor" at IEEE Conference (ICRAI'16) in November 2016.

2014 Published a conference paper titled as "To enhance the sensitivity of a piezoresistive sensor using Strength Concentration Region" at IEEE Conference (ICREATE) in April 2014.

AWARD

2025 Presented Terra Stinger at Annual Conference meeting of CUSP 2025 at University of UTAH, Salt Lake City

2022 Finalist in Robothon 2022, a global event that deals with the e-waste management using UR-5 conducted by TU München

2014 Project "Safety Assurance for high stress environment" won first prize in Research & Development category in Pasha Awards.

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