



Moiz Ashfaq

Mechatronics/ Robotics Engineer



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EXPERTISE

Project Management

Computer Vision

3D Reconstruction

Image Processing

MATLAB

Robotics

Mechanical Construction

Design & Manufacturing

Fabrication & Erection

Control Systems

Programming

LANGUAGES

English



Urdu



German



INTERESTS

AI

M/c Learning

EDUCATION

MS Robotics & Intelligent Machine Engineering
National University of Sciences & Technology (NUST)
09/2018

Islamabad, Pakistan

BE Mechatronics Engineering
National University of Sciences & Technology (NUST)
09/2013 – 07/2017

Rawalpindi, Pakistan

Projects

- Stereo based 3D reconstruction of potholes using Fast, Hybrid matching scheme (F.Y.P.)
- Design & Manufacturing of an Indigenous Search and Rescue Robot.
- Control System Modelling of a Reaction Wheel Pendulum.

WORK EXPERIENCE

Project Engineer (Mechanical) at Pyroline for Plant Installation
DG KHAN Cement Company Ltd.

10/2017 – 07/2018

Hub, Balochistan, Pakistan

Achievements/Tasks

- As Project Engineer, I oversee Monitoring, Supervision, Co-ordination and Planning of technical aspects of Fabrication and Erection work at site.
- Provide assistance in setting work program and target milestones for each phase based on the project plan.
- Produce procurement schedules for the jobs and ensure that site have adequate resources to complete the tasks.
- Resolving any unexpected technical difficulties and other problems that may arise.
- Liaising with any consultants, subcontractors, supervisors, planners, quantity surveyors and the general workforce involved in the project.
- Responsible for day-to-day management of the site, including supervising and monitoring the site labor force and the work of any subcontractors.
- Responsible for generating Daily Progress Report (DPRs) for everyday activities, including Erection Progress Measures, Schedule Updates, Manpower Status, Activity Reports, and Area Completion Criterias.
- Provide assistance in preparing and updating the project schedule.
- Provide assistance in verifying Work Invoices and Final Reconciliation.

RESEARCH

IEEE Transactions on Intelligent Transportation Systems - IEEE ITS (02/2018)

Stereo based 3D reconstruction of potholes by a fast, dense matching technique (Under Review)

IEEE International Conference on Intelligent Transportation Systems, Yokohama Japan - IEEE ITSC (10/2017)

Stereo based 3D reconstruction of potholes using fast, hybrid matching scheme