User interface development with programming for closed loop control of articulated robotic arm

Abstract

Objective and Scope of Project

An articulated robot is a planar redundant robot with rotary joints. The arm available at IPR is a 6 axis robotic arm mounted on a linear guide. The control system consists of servo drives, encoders for position feedback. The main objective of this project is to develop a user friendly control system interface including the safety interlocks for motion control of the articulated robotic arm.

The project work include
- Development of GUI,
- Programming the user interface,
- Integration with the robot servo drives,
- Implementation and testing.

Number of students - 02 (Max)

Eligibility: Only students of _Electronics/Electrical/Instrumentation & Control Engineering_ branches can submit their application at following email addresses

Email: naveen@ipr.res.in **[Guide e-mail address],** pramitd@ipr.res.in **[Co-Guide e-mail address] and** project_ee@ipr.res.in **[Project coordinator's e-mail address]**

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