

Smart Arm

Abstract:

As we continue to automate the world to make our lives easier, the fundamental nature of work is changing. Manpower required in factories has reduced significantly because most of the work is now being done by machines. In simple words human arms are being replaced by robotic arms. Consequently robotic arm takes on the burden of manual, repetitive tasks, freeing people to achieve their potential. Also these automated arms produce better results, reduces injury and drives industry further. Availability of robotic arms for monotonous and dangerous tasks has reserved human hands for critical and safer work, resulting in elevation of their value. This project aims to provide you with working of it, parts comprising it, its applications and projects related to this incredible technology. The main focus of this project was to design and develop the mechanism for robotic arm for lifting. The robotic arm was designed to accomplish accurately simple light material lifting task to assist in the production line in any industry.. Arduino, an open-source computer hardware and software is applied to control the robotic arm along with the Matlab GUI to be capable to modify the position.

