ETSRB005-2017 Development of Library Management Robotic

System

Abstract

Robotic process mechanization is the utilization of programming with manmade brainpower and machine learning abilities to deal with high-volume, repeatable assignments that beforehand required a human to perform. Robot is an automated machine. In library administration, we need librarian for management of books. To lessen curator inconvenience we have created robotization in library to speedy transport of books utilizing robotic arm. Library management robotic system is combination of software used to manage the library database and hardware used to manage the book handling. This system helps to keep the records of whole transactions of books available in a library. A robot is modular design of sensor operated motors to manage the library. Robot acquires the book information from stored database. The robot gathers the barcode data from the books and relates the decoded barcode data with the search input. The robot conveys a standardized identification scanner which gathers the scanner tag information from the books orchestrated in a vertical way and contrasts the decoded scanner tag information. Global positioning system is used for book location finding. This aides and streamlines the occupation of custodian and lessens the manual routine work done by the library staff.