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A

PROJECT WORK ON

“AUTOMATED BOOK PICKING ROBOT FOR LIBRARIES”

Carried out

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Submitted in partial fulfillment for the award of

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING.

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ABSTRACT

Library has many connotations. A **library** is a collection of information resources and services, organized for use, and maintained by a public body, institution, or private individual. In the more traditional sense, it means a collection of books.

Typically we need a librarian to pick the books and hand it over to the person to whom the books are being issued. This might be an easy task incase the library floor area is small

To automate this process of book finding and picking we suggest a robot with an arm with some degrees of freedom which will be able to find out the book with the required tag and then pick it and place it on the table.

Here we will be placing the books in a rack and all the books will be tagged by RFID tags and an RFID reader will be placed on the arm of the robot. The robot will perform a brute force method search and incase the book is found it will be able to pick it up and bring it to the issuing desk.

Further in the reference section we would like to place some sensors which will be able to sense the students near the book racks and then switches ON/OFF the lights in that vicinity. This mechanism will ensure that only the required number of lights is switched ON at any given point of time.