



Jackaroo Automated

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General Idea

What is jackaroo ?




Jackaroo is a popular 2-4 player board game. It is played using its own uniquely designed wooden board with regular cards and marbles. The goal of the game is to move your marbles around the board to reach the safety zone by playing the cards in hand.



Project objective

The objective of the project is to create an interactive and engaging game that combines traditional gameplay elements with modern technology. By replacing marbles with LEDs and buttons.





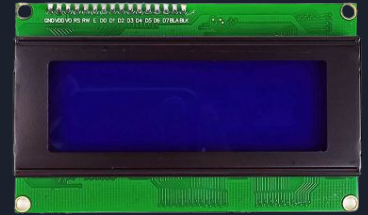
Understanding the components

01 User input and screen section

02 The led path

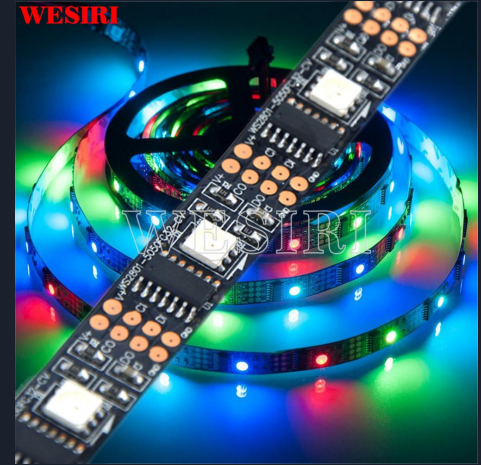
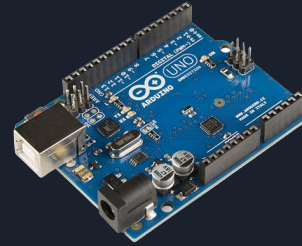
03 Card trader

User input and screen section



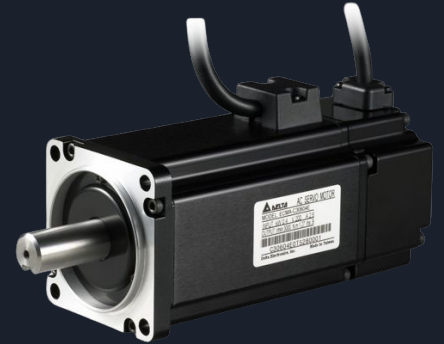


The led path section





Card trader section





AI Section

The utilization of the minimax algorithm has been employed to facilitate decision-making processes in our game. Due to its limited global popularity, we have resorted to improvising with a heuristic function to enhance the decision-making capabilities within the game.





Constraints

- Limited equipment
- Mechanical knowledge gaps
- Component availability and lead time
- Project scale and complexity





Thank you!

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