

Chonghui Chen

Capstone CS1600: Embedded Software

Title: Dance Bot

Abstract: The dance bot is a system where the user can use their hand motion to control the movement of a dancing robot and the music being played. The system input is a bracelet for the user that detects the user arm motion speed and directions and sends it to the robot, which moves correspondingly. It also has a gesture detection where the user can use the other hand to control the music being played. Everything is implemented with Arduino and its peripheral parts.

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