



Project title:

Perfumix Machine

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Group Members: Lina Qurom & Lina Al-deek

Department Name: Computer Engineering

Project Type: Hardware

Supervisor Name: Dr. Luai Malhis



Project's Abstract:

The project titled "Perfumix Machine: Automating Perfume Mixing for Perfume Shop Administrators" aims to develop a hardware project that streamlines the process of perfume mixing in shops.

The administrator of the perfume shop can utilize the perfume mixing machine to automate the process of mixing perfumes instead of manually doing it themselves. This project holds significant importance as it offers convenience and efficiency for administrators, whether they are shop owners or an amateur with limited experience in perfume making, exploring the art of perfumery.

Key aspects of the project include a user-friendly sequential user interface, allowing administrator to select the perfume type (for men, women, or unisex), choose the perfume's name, and specify the desired case size.

Objectives include automating perfume mixing, reducing manual labor, and improving overall efficiency. By incorporating an automatic storage and retrieval system, the project aims to ensure a continuous supply of perfumes. When the perfume containers equipped with sensors run low on a specific quantity, the machine will automatically refill them from separate storage containers for each component.

The methodology for this project involves the utilization of Arduino as the primary platform for hardware development. It will include developing the user interface, and implementing the automatic storage and retrieval system.

This project appears to be unique within our university, and discussions with perfume shop owners confirm the absence of a similar machine in their establishments.

The Perfumix Machine aims to cater to the needs of perfume shop administrators, providing a novel solution to enhance productivity and efficiency in the perfume mixing process.