Cover page

Project title: Choco Palette Academic Year: 2024

Group Members: Islam Atallah 12028848 Department Name: Computer Engineering

Hala Jabi 12028158

Project Type Software or Hardware (Hardware)

Supervisor Name: D.Emad Natsheh & D.Mohanad Jabi

Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

Abstract Body:

Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
-
- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**

Project's Abstract:

Our hardware graduation project is a fully autonomous chocolate-making system that allows users to order customized chocolate products via a mobile application. This machine eliminates the need for a worker to make chocolates, saving both money and effort. It is user-friendly and safe, making it ideal for use in schools, universities, and institutions, offering a fresh and healthy alternative to traditional vending machines.

Our machine is connected to a mobile application that allows clients to choose the chocolate chips they want. Clients can select from predefined options such as nuts, blueberries, or raisins according to their preference. After choosing the chocolate and add-ons, the machine will start the process by measuring the correct quantity of chocolate and placing it into a pot for heating and mixing to make it liquid. Once mixed, the machine pours the chocolate into a mold. Finally, it adds the chosen nuts or blueberries, then dries the chocolate to create a chocolate palette, preparing the machine for the next order.

Additionally, our project uses multiple sensors to ensure that everything is done correctly and to achieve high accuracy.