Garage-Go

**Student Team Members:** Colton Goetjen**,** Khac Minh Dai Vo, Travis Xu, Jerrik Johnson.

**Faculty Advisor:** Dr.Nik Tehrani.

**Project Scope and Objectives:**

1. Enhance Garage Safety: Integrate IoT app, wireless-connected kill switch, and pressed button for improved garage door security.
2. User-Friendly App Development: Design an app for easy on/off toggling and garage door opening.
3. Real-Time Monitoring: Offer users peace of mind through real-time app control and monitoring.
4. Accessibility and Convenience: Ensure the system is easy to install and use, as well as provide easy remote access through 1 synchronized app.
5. Technical Development: Create a Smart-Garage kit, including a smart plug and button. Design 3D models for custom parts and programs using Arduino with ESP8266.
6. Market and User Research: Conduct research to validate the product's market fit and user preferences.
7. Documentation and Reporting: Produce comprehensive documentation and a final project report to the professor and Aviation & Technology Department.
8. Timeline and Milestones: Define clear development, testing, and presentation milestones and goals throughout the semester.
9. **Mission Statement:** Enhancing garage safety through an IoT App and Wireless Connected Kill Switch to a garage door system.

**Product Description:**

App: Perform on and off for toggle switch and pressed button to open the garage. Both objects will be working on the same application.

Kill Switch: This smart kill switch has a chip inside that connects wirelessly through the phone. It offers users an app-controlled garage opener with a kill switch that can turn the power of the motor on and off to provide a secure, convenient, and modern way to control the garage door system and make your house a safer place.

Smart Pressed-Button: The app will allow you to press the open button inside the house, eliminating the need for the garage fob.

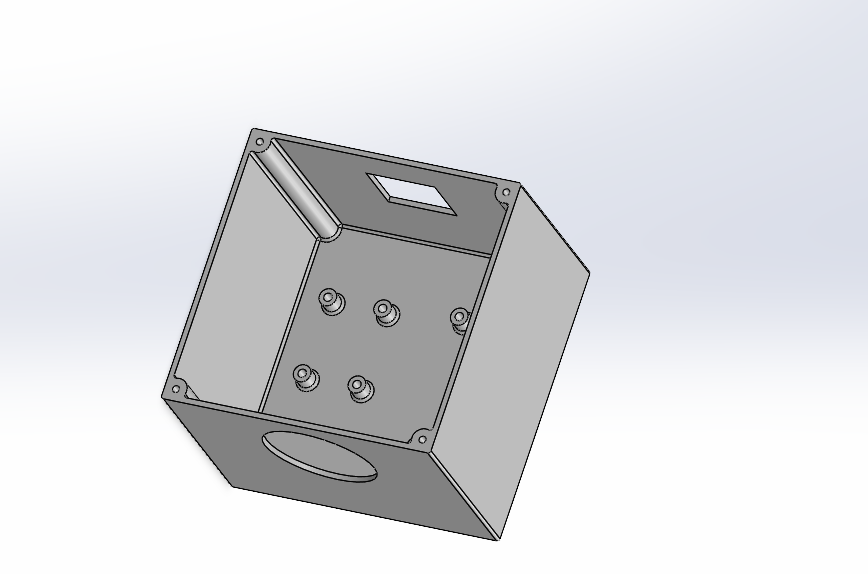
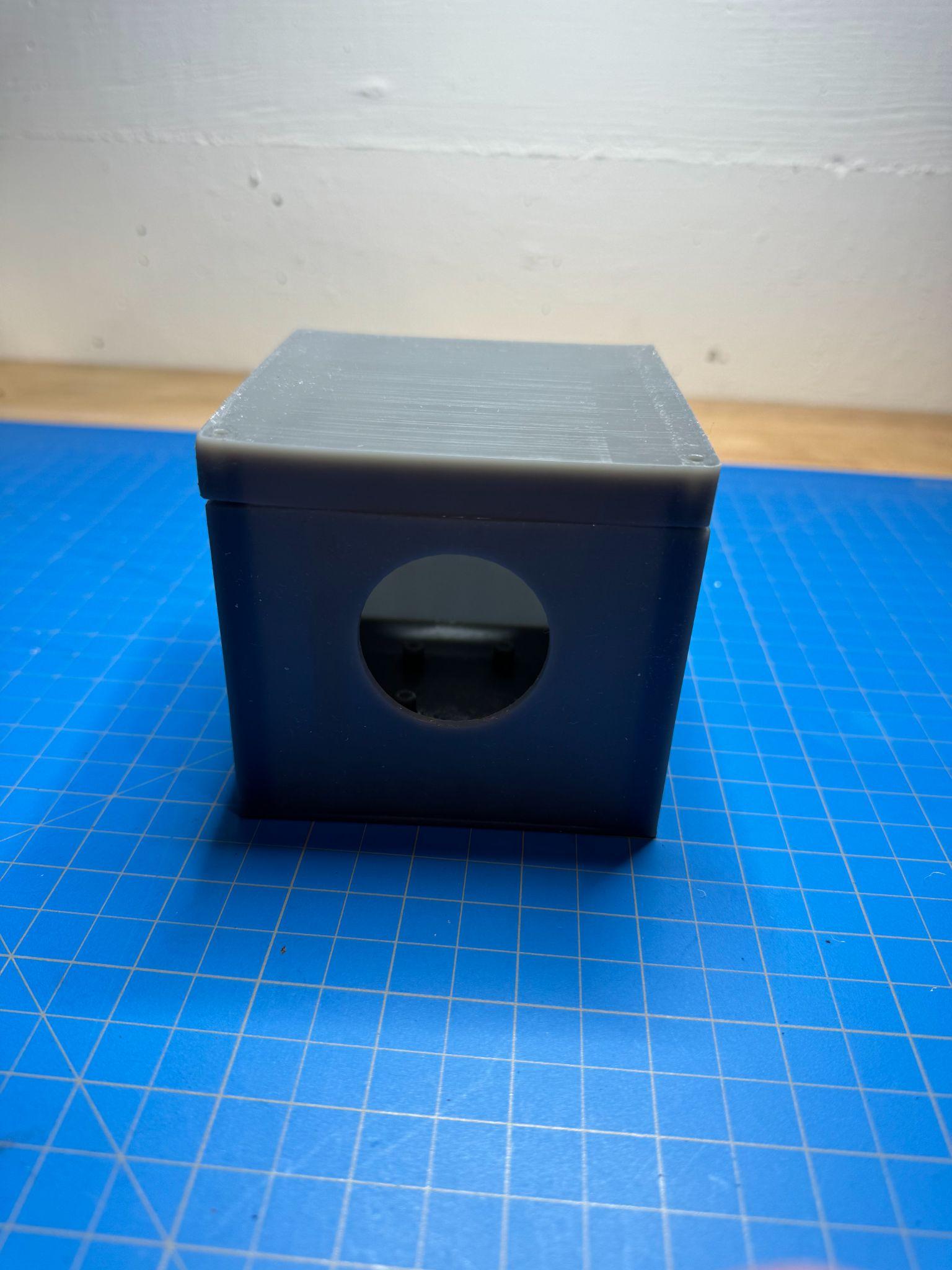
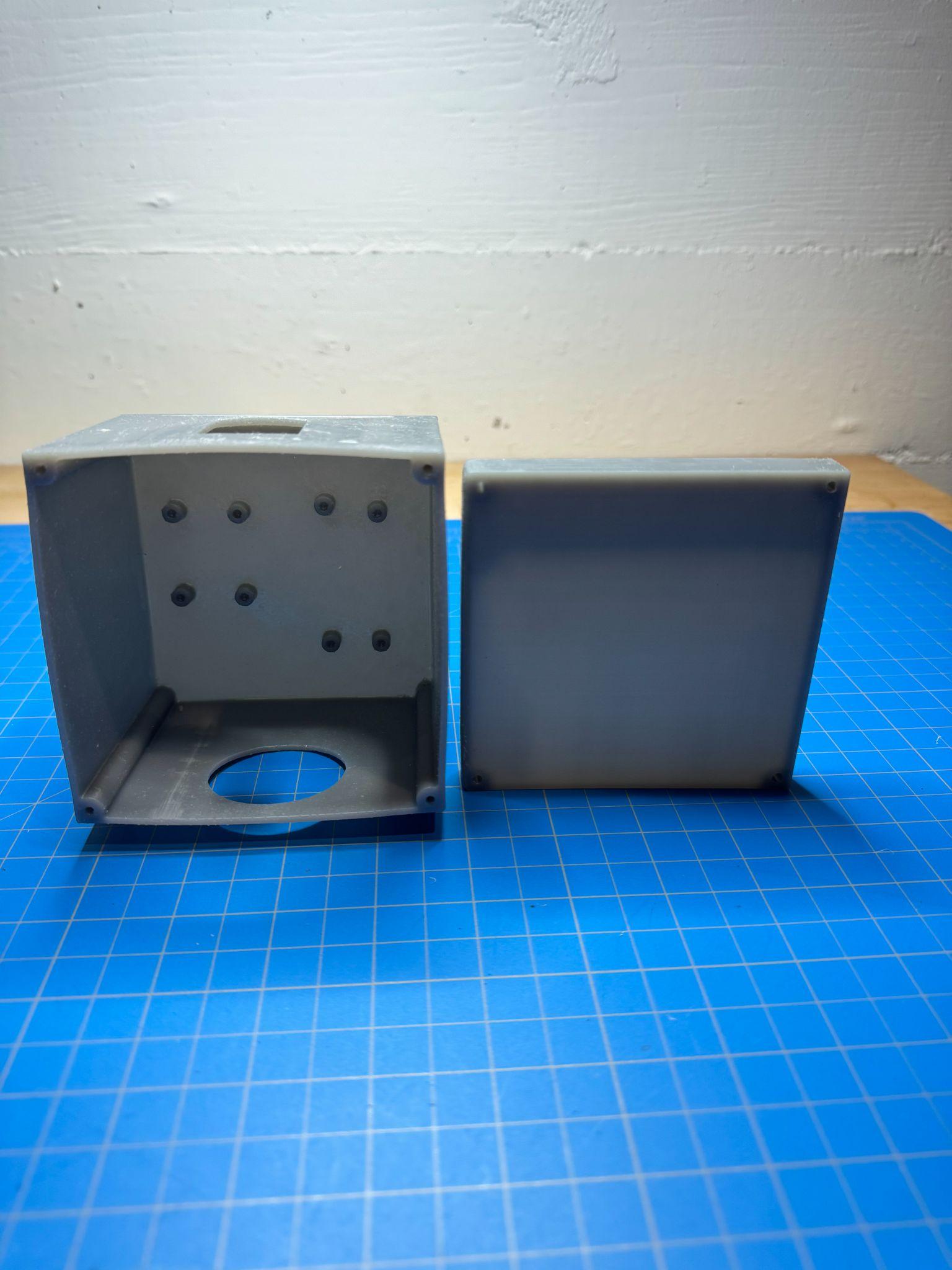
Benefit Proposition: Home security convenient due to remote control for door operations, and there is a peace of mind thanks to real-time monitoring and control by app.

**Project Results:**

1. Research and develop a kit for a Smart-Garage system that includes a smart plug and smart button pressed that is controlled through an app.
2. Develop a 3D model using CAD for 3D printing purposes.
3. Ordering and buying components for the project.
4. Printing the part that we needed to.
5. Code the project using Arduino with the ESP8266 chips.

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**Photos**

A hand holding a cable to a computer

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