Indvidual Report Template

Student Name: Jack Donaghy

Student Number: 00268126

Date: 04/03/2025

[Brief 1](#_Toc215341325)

[My Role 1](#_Toc1127343160)

[What I learned technically wise 1](#_Toc1679944342)

[What I learned about working on a group project 1](#_Toc1844659093)

[Challenges I encountered 2](#_Toc205732311)

[Buttons 2](#_Toc1449755280)

[Timing 2](#_Toc715804565)

[Complexity 2](#_Toc1685238757)

## Brief

what your **role in the project was**, what you **learned from a technical point of view**, and also **what you learned about working on a group project**, any **challenges you encountered** and how you **went about getting past these challenges**.

## My Role

I was main designer of the group and had the final decisions on the size and shape, the placement of parts and the general physical object. I helped lead the project and delegate roles and try structure a system that maximized all our individual talents!

## What I learned technically wise

I learned how to design a usable product, what are the common “household styles” of design – e.g. fitting in two hands or one, a screen being above the buttons and interaction

I also delved into the different parts of the grove kit, their functions and which sensors/modules would we need connected to give the best user experience

## What I learned about working on a group project

Coordinating work between different team members and trying to achieve the most effective timing and balance of workload between members

Leading and serving the members of the group by taking in all the suggestions and feedback to try and improve and create the best experience

## Challenges I encountered

### Buttons

The Buttons as part of the grove kit have the port on the same side as the button making the holes I printed on the design futile, but I was able to work with my dad (he has and electronic engineering phd) to try and fix the problem-

We solved it by attaching some mores

### Timing

It was hard to coordinate being the first IoT project and not knowing the exact workflow or times that Jobs would take

We solved this issue by taking each new discovery in stride and adapting to any ideas or projects failing or not getting done on time.

### Complexity

Making the Student buddy and trying to reduce it’s complexity was challenging, there is so many possibilities for the small tool but one day it may gain these features

We solved this problem by working from the ground up and creating the simplist model on paper and slowly adding to it, instead of starting with the finished idea!