Digital car switch panel

**2023/2024**

**By**

**Thomas James Hammond**

**Student number 202112533**

**Word count: XXXX**

Contents

[Mind Map 3](#_Toc149037575)

[Key Words to search 3](#_Toc149037576)

[1. Knowledge and Familiarity in the subject 4](#_Toc149037577)

[1.1. Significant established themes of the project 4](#_Toc149037578)

[1.2. Recent Developments 4](#_Toc149037579)

[1.3. What are the recent developments? Are they significant? Why? 4](#_Toc149037580)

[2. Critical Analysis 5](#_Toc149037581)

[2.1. Strengths of the chosen themes 5](#_Toc149037582)

[2.2. Weaknesses around the project area 5](#_Toc149037583)

[2.3. Any controversy around the project area 5](#_Toc149037584)

[3. Summarise 6](#_Toc149037585)

[3.1. My thoughts 6](#_Toc149037586)

[3.2. Project link to the question 6](#_Toc149037587)

[3.3. Research methods 6](#_Toc149037588)

# Mind Map

A diagram of a system

Description automatically generatedA diagram of a car display

Description automatically generated

## Key Words to search

* Car infotainment history
* Car infotainment Safety
* Car infotainment Legality
* Car infotainment Uses
* Car infotainment System control
* Car infotainment car connection (Hardwired/Wireless)
* Car infotainment variations
* CAN system
* Reall time system
* User UI
* Realtime Updates

# Knowledge and Familiarity in the subject

## Significant established themes of the project

established themes of your subject/topic? What are the relevant sources? Why? Are they reliable sources? Why?

## Recent Developments

Some new infotainment systems allow the user to gain haptic feedback when the screen is touched which increases safety as they don’t have to loom at the screen to check that a button has been pressed. Some new systems also allow for voice reignition and control which allow the user to use the interface without looking at the screen at all. Research has also been done about wearable sensors which are able to detect when a drive is getting tired and warn them before its too late.

Some of these developments are significant as they could lead the project to become obsolete due to the technology being developed at a much quicker rate than the project is. Some of these developments could also be researched further and potentially implemented into the project such has haptic feedback which would make the overall product much better and safe.

## What are appropriate methods of research?

What are the appropriate methods of research?

# Critical Analysis

## Strengths of the chosen themes

What are the strengths of the themes of your chosen topic? What evidence have you found that supports this?

## Weaknesses around the project area

Where are the gaps or weak areas in the literature? What are they?

## Any controversy around the project area

Some controversies around the project area include some safety issues which can arise from a computer system being implemented in a moving vehicle. It can be a huge issue if a computer system is implemented into a car as this can distract the driver from the road and could cause incidents.

# Summarise

## My thoughts

What do you think? Why do you think that? (Based on the evidence you have gathered.)

## Project link to the question

How does your project/research question link into this? Why does it need to be undertaken? (Try to give an explicit statement for your reader).

## Research methods

What are the most appropriate research methods to use and why?

# References

* <https://www.sciencedirect.com/science/article/pii/S2666691X21000452>