Disposition

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# Introduktion

## Gamification

Description of background, including smart trainers

## Existing Solutions

Review the existing applications that combine smart trainers with gaming.

Discuss the limitations or gaps in current solutions that our project aims to address.

### Smart Trainers

## Hypothesis

Description of the fact that there could be made a more general solution, that takes arbitrary peripherals or other hardware devices that are not originally meant to be peripherals and combines them as one peripheral.

# Methodology

## Solution architecture

This part will introduce the architecture that the solution is built on. It will include a description of code involving flowchart diagrams as well as decisions that have been made to develop the POC, including joystick and raspberry py hardware.

## Modularity and Design Patterns

Decisions that have been made to make the code modular, including possibly design patterns

## Error Handling (optional)

A description of how the application has been made fault safe

## Benchmarking (optional)

A description of benchmarks performed with our system

# Discussion

## Discussion of Methodology

Brief discussion of each of the parts mentioned in methodology

## Safety and privacy of user data

Description of what sensitive user data is involved, what impacts it would have on users if it was leaked, and the responsibility, if any, of the application to protect that, along with an assessment of how our application satisfies these requirements.

## Future work (may be part of conclusion, but does not have to)

Things to consider in future research or applications of similar solutions, such as possible improvements in design and functionality

# Conclusion

POC succeeds in integrating arbitrary many devices without unreasonable implementation efforts.