

# WIRELESS SWITCH ATTACHMENT

Evelena Burunova, Jack Lalonde, Angie Thai  
Need Expert: Molly Mollica



HUSKYADAPT

Accessible Design & Play Technology

## **The Challenge:**

Adapted toys with wired connections can limit interaction and pose safety concerns.

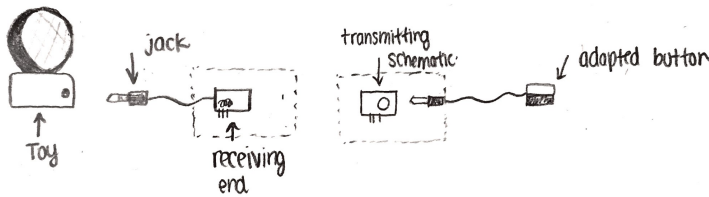
## **Motivation:**

Since playtime is an important aspect in a child's development, we want to empower children with our solution to this challenge.

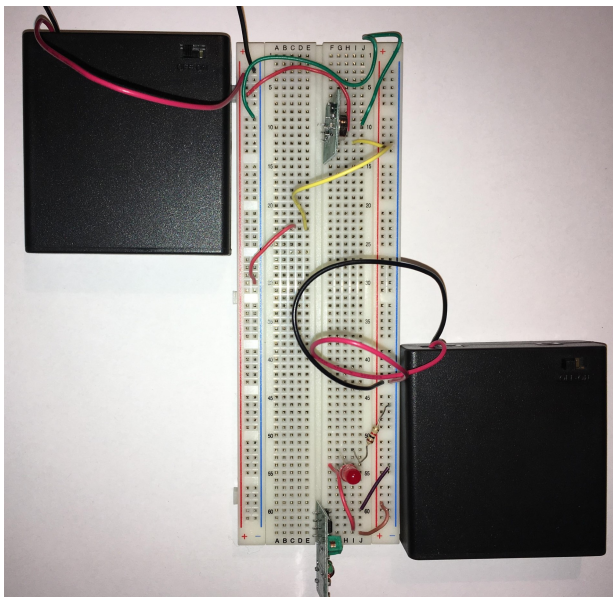
## **The Goal:**

Our team's goal is to develop an effective, wireless alternative to activate battery-operated toys. Additionally, we plan to focus on sustainability and efficiency in our solution.

## **Sketch of Overall Design:**



## **Circuit Prototype:**



## **Design Specifications:**

Wireless components: Receiver and Transmitter

- Receiver attachment:
  - Requires resistors and a solid state relay in the circuit
  - Requires a jack-attachment to plug into the toy
  - Will be attached to the side of the toy with Velcro
- Transmitter attachment:
  - Requires a port in the circuit for the jack of the adapted button to plug into

Uniqueness:

- Attachments come as a set and works with every adapted toy
- Allows for sustainability

## **Future Work:**

- Test prototype with reliable circuit components
- Minimize the size of the working circuits
- Attach the jack to the receiver
- Obtain parts to plug a jack into the transmitting circuit
- Design a box with soft-edges to encase both mini circuits
- Velcro the receiver onto the toy

## **Acknowledgements**

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