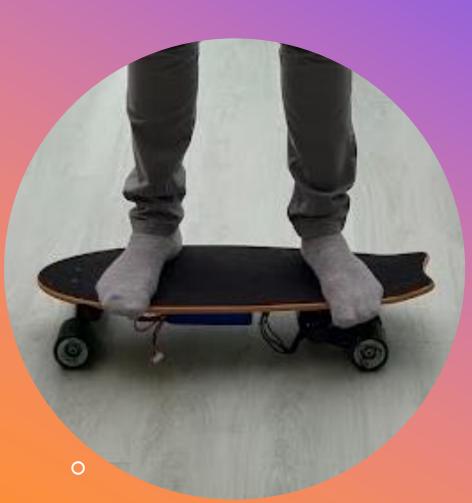
ELECTRIC SKATEBOARD



William Otty



AGENDA

Introduction Research The Plan 3D Printing Assembly Drive Test Reflection

Introduction

- Watching YouTube videos
- Experience with electronics
- Cool project to work on

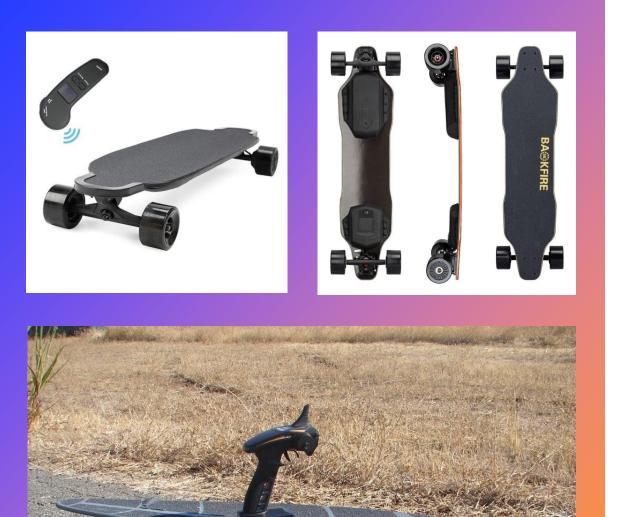


RESEARCH

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Summary

- Many people had attempted.
- Wealth of resources available.
- VESC project
- Parts List

THE PLAN

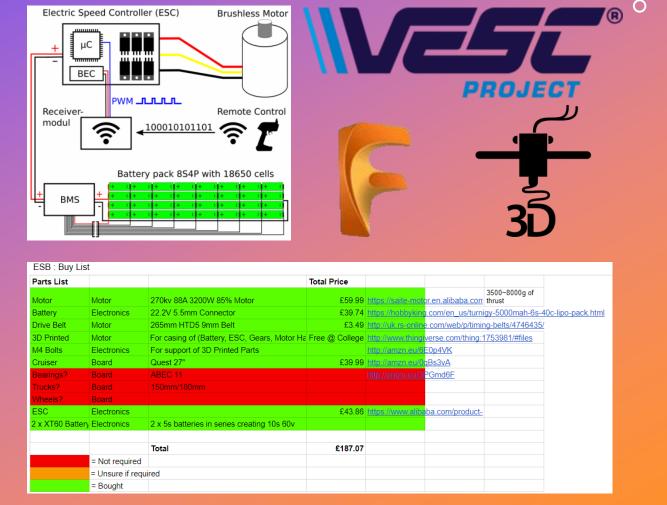
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ELECTRIC SKATEBOARD

PARTS LIST AND ELECTRONICS DIAGRAM



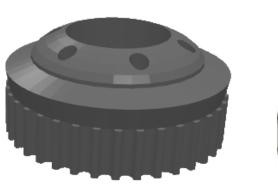




GEARS AND MOTOR MOUNT

- I designed the 3D-printed parts
- Decided to use a caliper and a motor mount.
 Separating these two parts means I can get a good grip.
- Four brackets to keep it stiff.
- I designed two gears







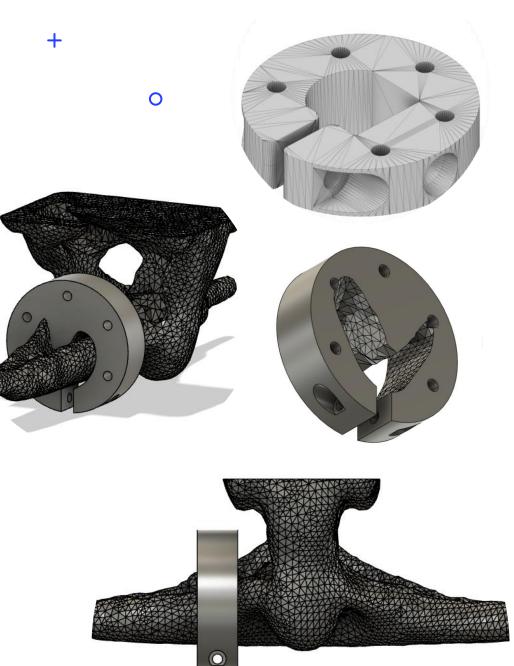
PROTOTYPING

PRESENTATION TITLE

THE CALIPER

• Used an iPhone camera and Lidar sensor to get a 3d model of the skateboard trucks.

- I then made a Boolean operation to cut the caliper to exactly the right size for the trucks.
- Then using a 3D printer I printed the 4 parts and began constructing them



ASSEMBLY

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Assembly

- Velcro to attach parts
- Antenna taped down
- Low profile so no case











REFLECTION

- The project was an overall success
- Milling the motor mount
- Compact controller
- Higher Power



THANK YOU

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