

# Electric Skates Prototype 1

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Goal:

We want to make transportation more fun and fast without compromising safety.



# Specifications

- Model what a drive train would possibly look like
- Test proportions for an actual motor skate
- Make the model to scale down to display only one axle of the skates

# Materials

- We primarily used lego parts, wood, and cardboard
  - Other materials: zip-ties, Model Magic, hot glue
- Modeled the drive train through wooden dowels and toy gears

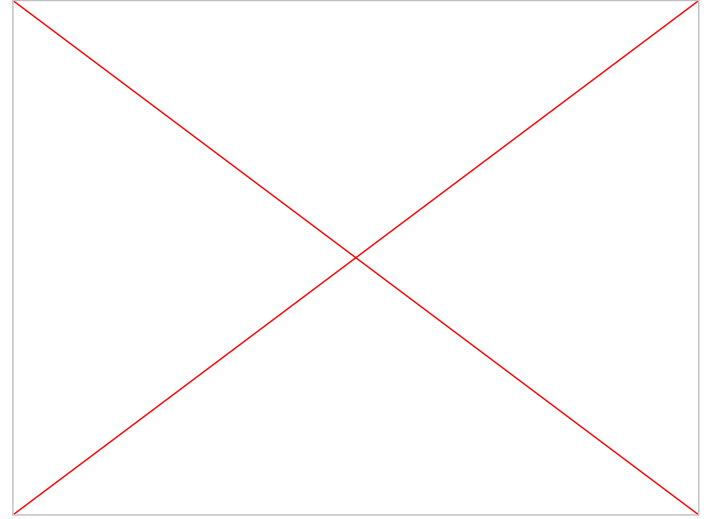
# Lessons Learned/ Improvements

- We have to have a time based plan
- The drive train and placement has to be linear and run smoothly in order for the electronic aspect to work
  - Gear-teeth need to be more angled and properly aligned
- We need to work on the placement of parts and spatial planning
- Adaptability
  - Changing from inline to derby skates

# DEMO

<https://youtu.be/nEVkYNeZIHl>

Skates with motor



<https://youtu.be/XWLgYw4L6iM>

Skates without motor

