

# CAKE

Casey, Amelia, Kim, Elisa

## Objective

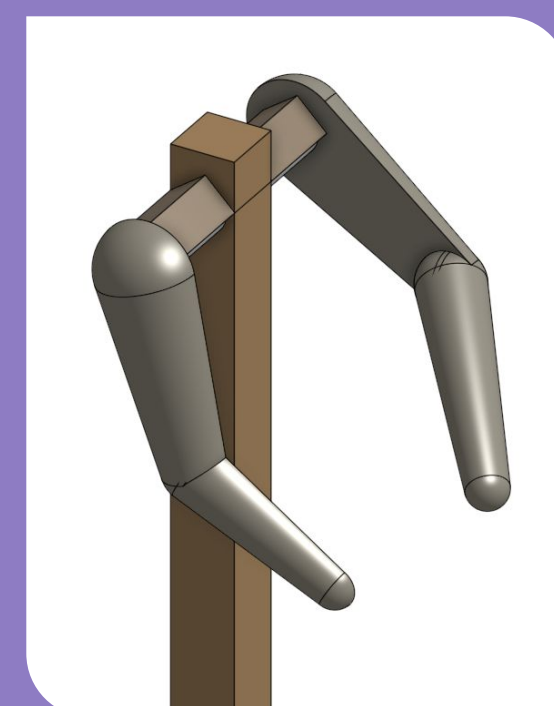


**Objective:** To create a cool and functional Halloween animatronic

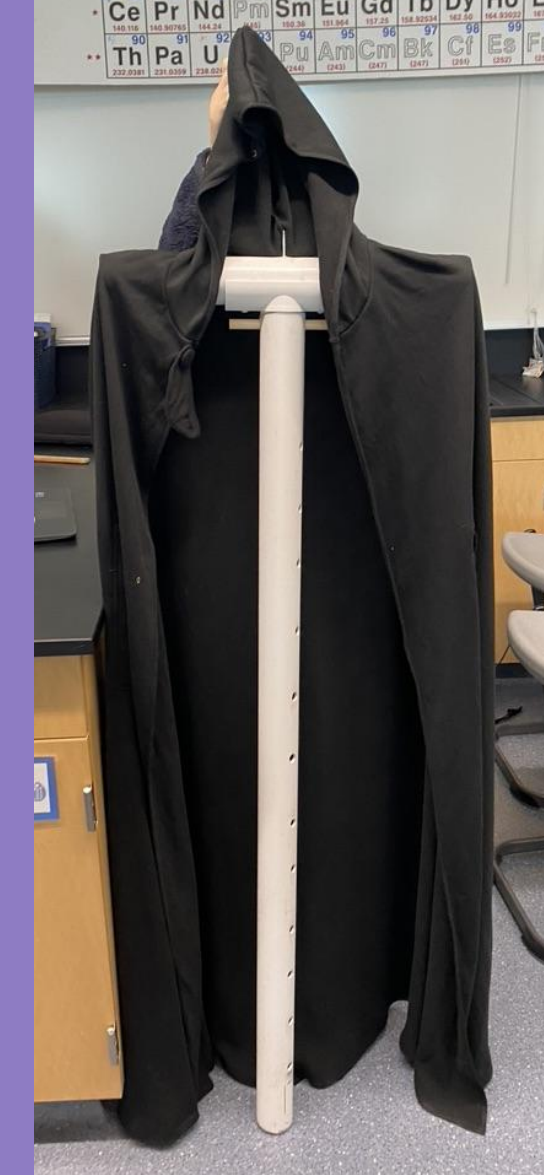
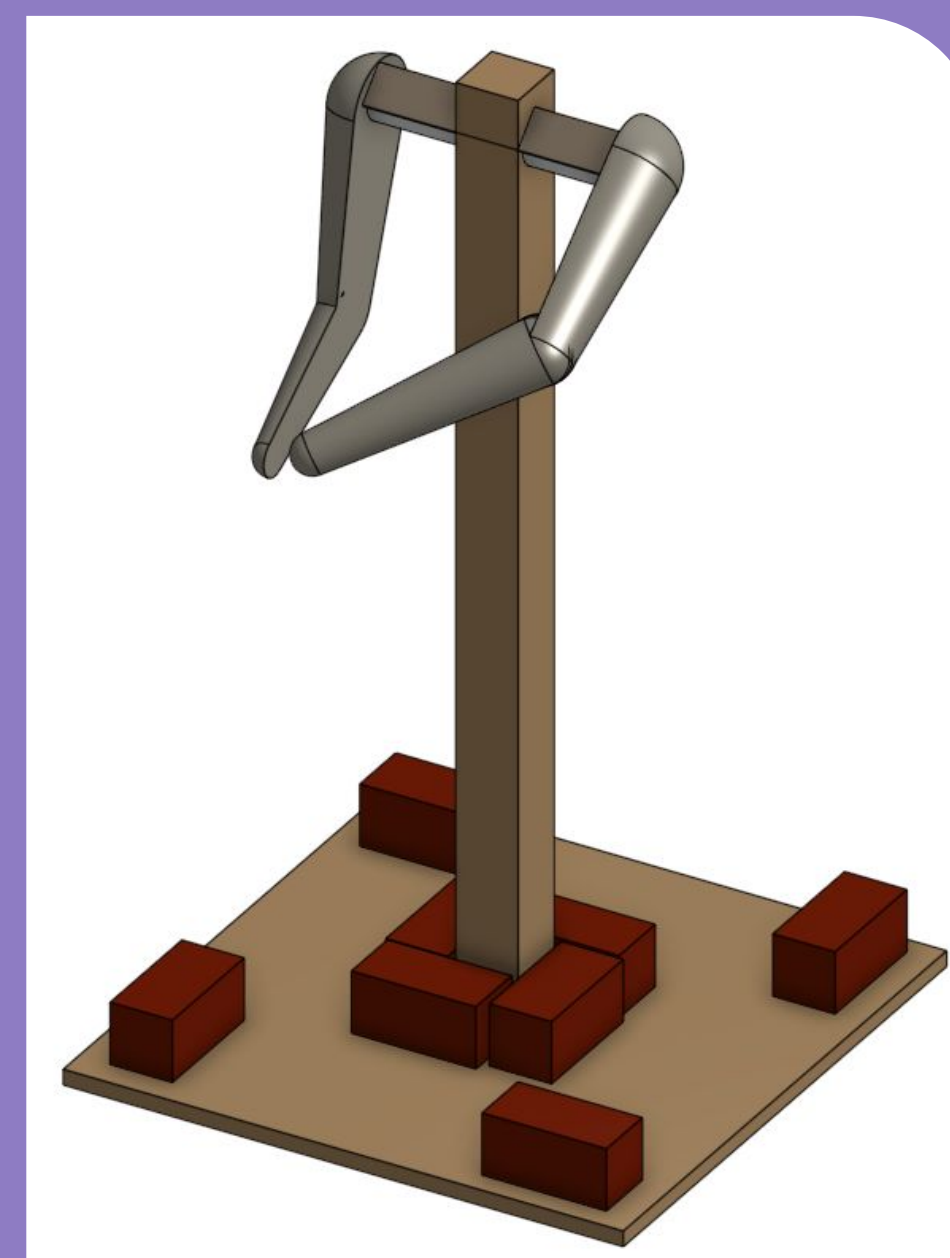
**Rules & Restrictions:** The animatronic had to be Halloween themed, needed to have at least one moving component, and stay within a \$20 budget

**Our Device:** We made Voldemort trying to kill baby Harry Potter, with him raising his wand and pointing it at the baby he holds in his other hand.

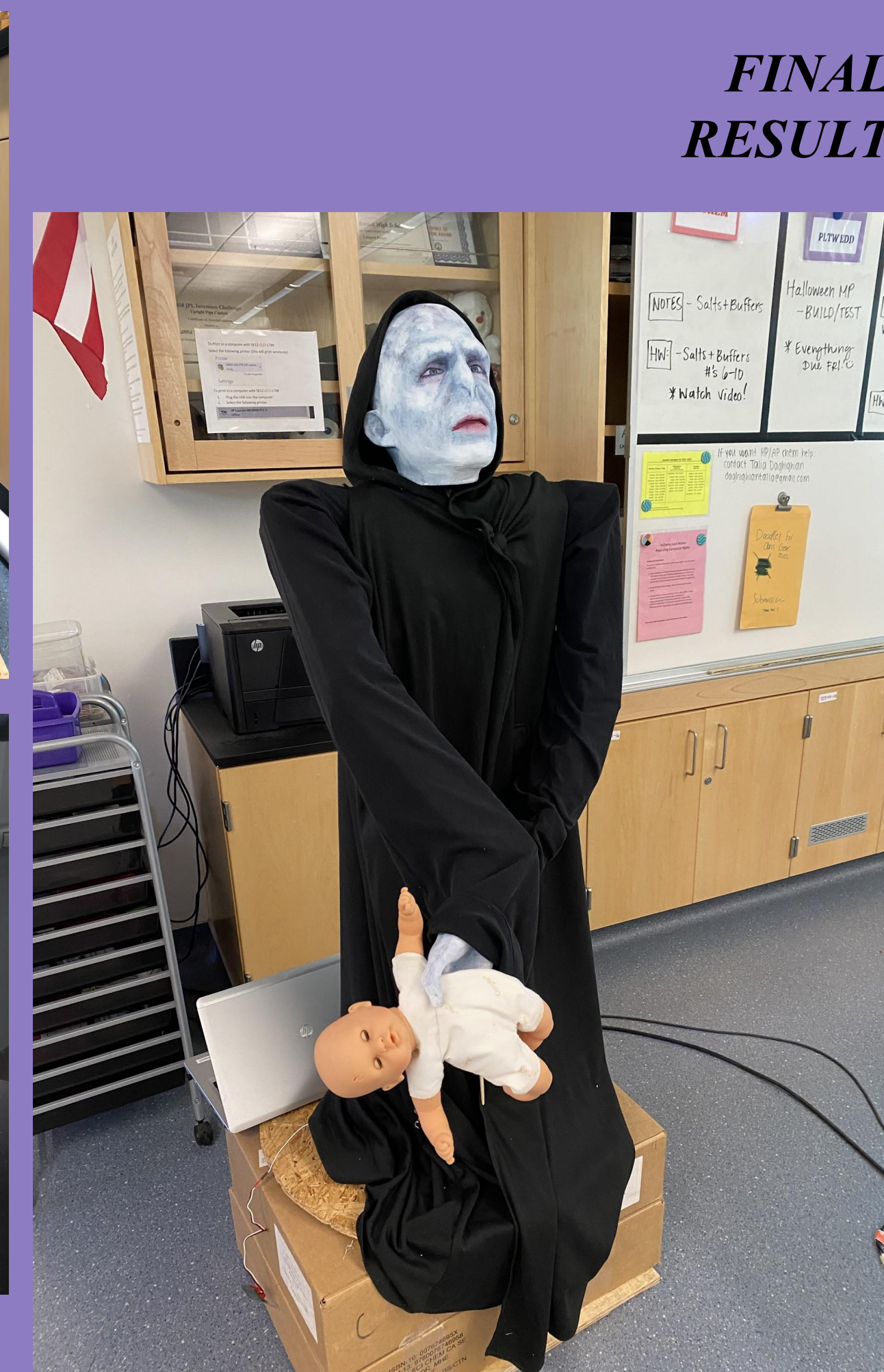
## Documentation



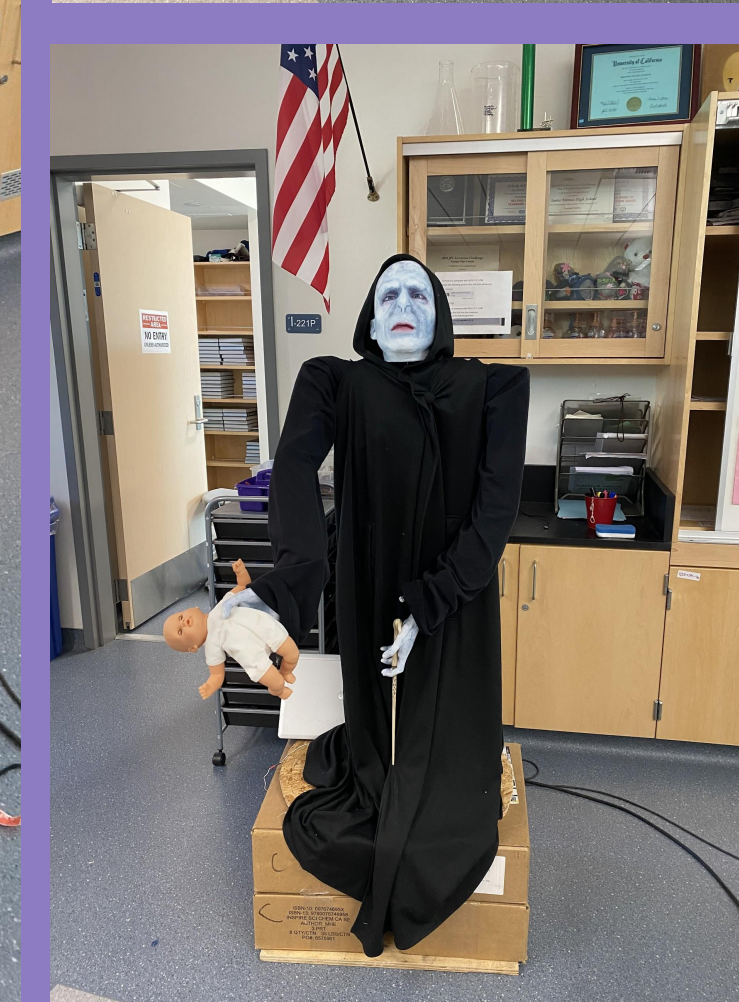
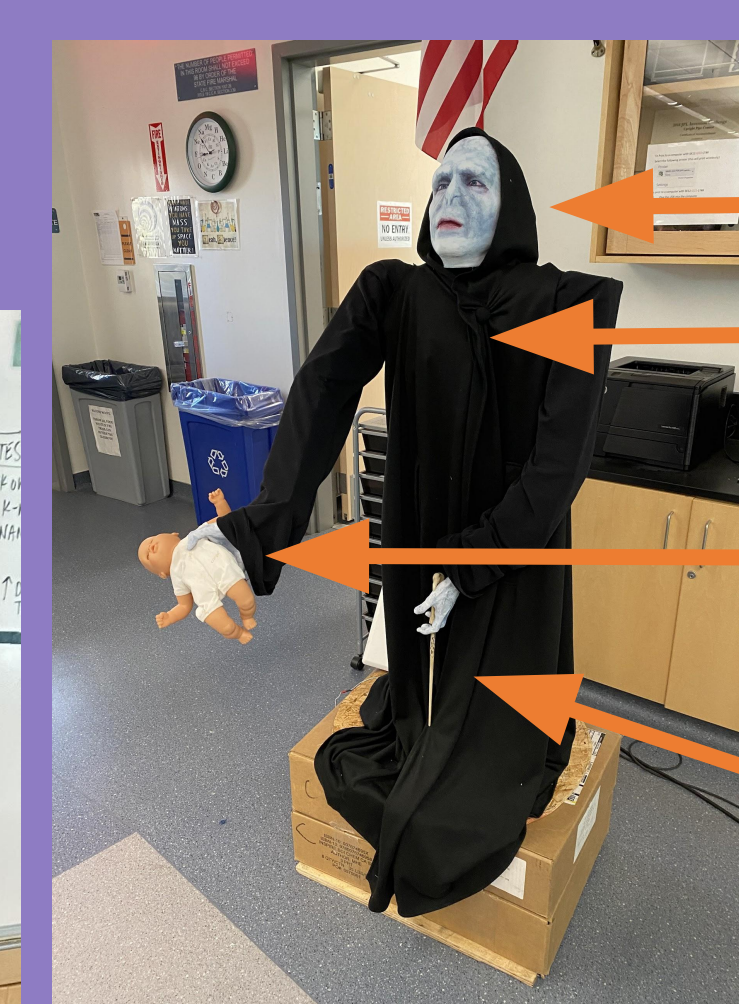
CAD FILE IMAGES



TESTING AND ASSEMBLY



FINAL RESULT



## Parts and Components

3D printed Voldemort head, painted and covered with black cloak

Location of Vex Robotics "heart," where all the code is stored

Baby Harry Potter, wired with a red LED for lightning scar

3D printed hands, painted; holding wand and green laser pointer for magic effect

## Issues

- Figuring out what program would work with Vex parts and getting the code to work correctly
- Gathering materials
  - Lead to issues with having enough time to put all parts together
- Making realistic proportions
- Lining up the arms properly

## Group Members



**Kim**

Helped build, code, 3D model, create poster and test prototype



**Casey**

Helped build and test animatronic



**Elisa**

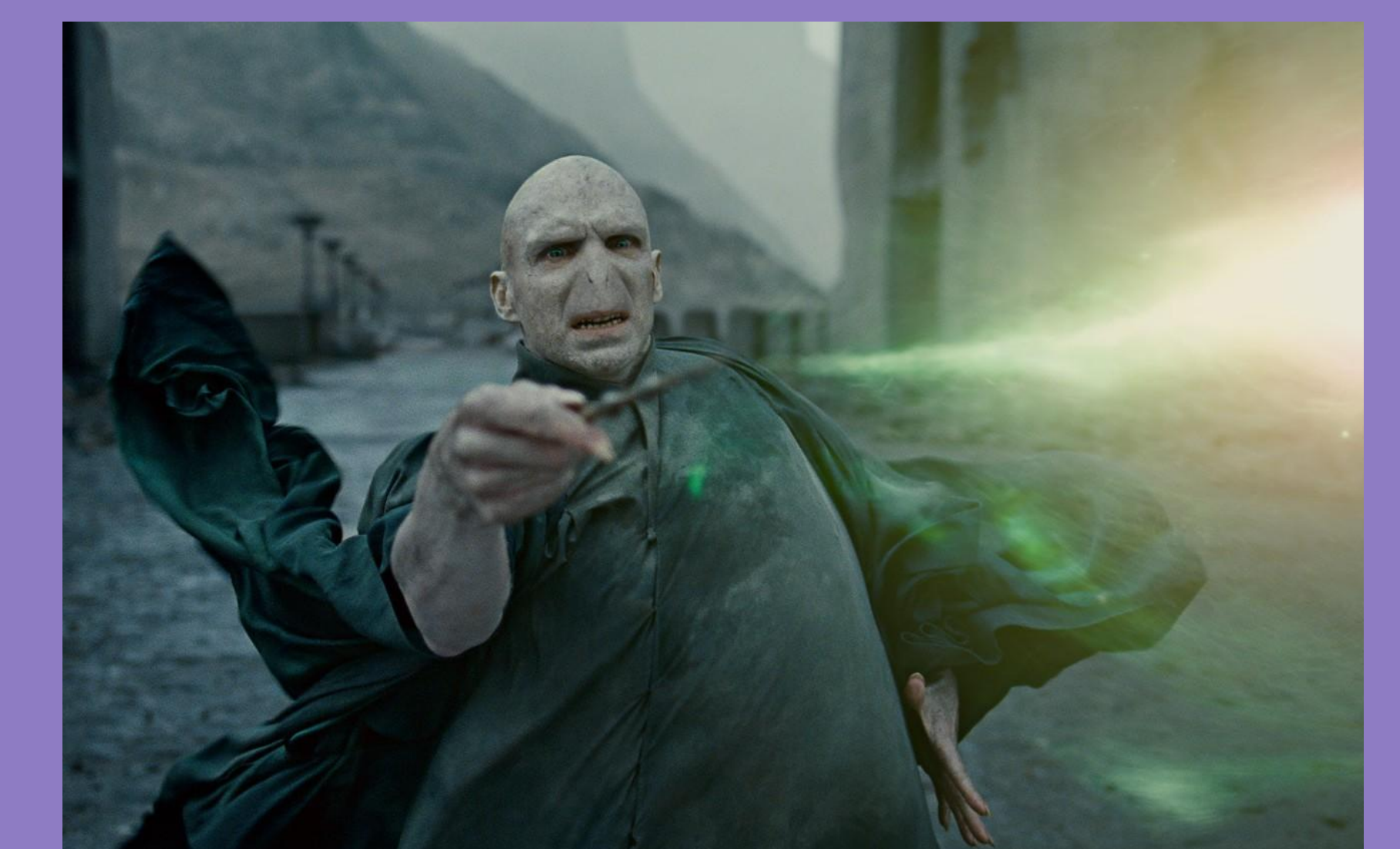
Helped build and test, painted the head, hands, and arms, worked on poster



**Amelia**

Helped build and test, helped paint, worked on poster

## Design Process



## Future Steps

Once the project is completed, we hope to disassemble Voldemort and use his parts as room decoration