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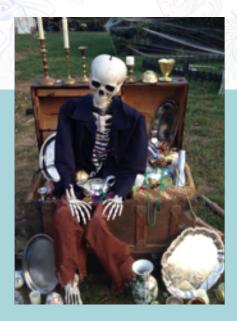
Storytelling has always been a central part of my life—from writing to drawing to music making and more. To me, one of the most import aspects of a good story are the characters. I fell in love with bringing characters to life through animatronics and puppetry when I was 13. I look forward bringing this passion into the professional world, and I'm eager to grow and learn from the best!

Skeleton Pirates Halloween Display

(Animatronics) Created: 2015











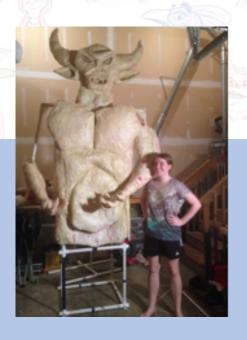
- 4 animatronic characters
 - Moving jaws
 - Head up/down, tilt left/right
- Characters preform a 5-minute show I created with various audio/music clips
- Electronics
 - Analog servos
 - o SSC-32 board
 - Sending and CAT6 boosted receiving boards with ethernet cables
- Software/Programming
 - TrackSkull by MonkeyBasic
 - VSA by Brookshire

Chernabog – from Disney's Fantasia

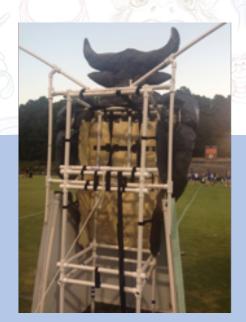
(High School Marching Band Prop) Created: 2016









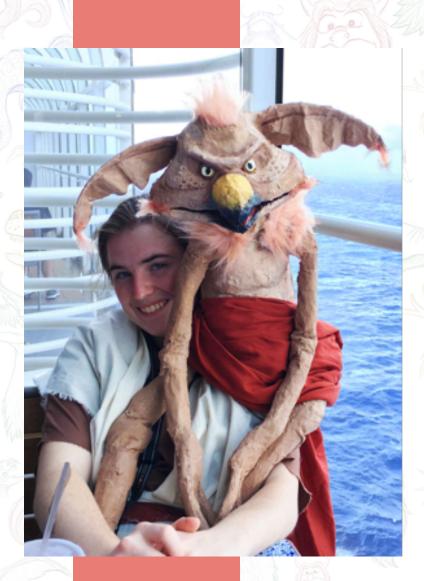




- 12 ft prop
 - Wings open/close
 - Eyes illuminate
 - Moved around field during show
- Materials: masking tape and paper, foam, spray paint, on a PVC structure.

Salacious B Crumb

from Star Wars Episode VII: Return of the Jedi (Cable Controlled Puppet) Created: 2017













- Cable puppet that rode on my shoulder with two controllers concealed at my waist
 - Head left/right, up/down
 - Body lean forwards/back
 - Upper and lower jaw (separately controlled)
- Mp3 + speaker (hidden in cloth) for laughter
- Materials: masking tape and paper, wood, acrylic paint, rubber bands, bicycle brake cables.

Corvus - Original Creature

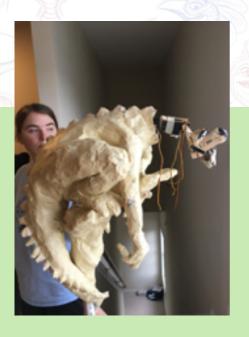
(Animatronic Puppet) Created: 2017

Rebuilt/Updated: 2018 and 2019

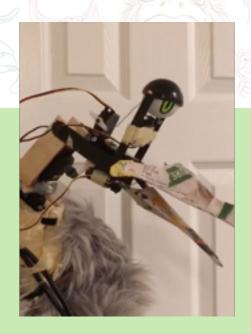












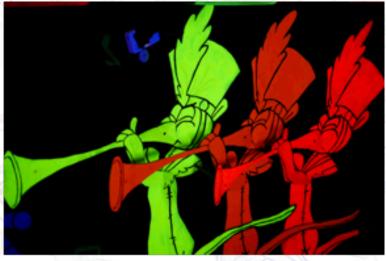


- Battery powered animatronic
 - Head up/down, left/right, tilt
 - Mouth open/closed (top and bottom beak)
 - Blink, eye left/right
 - Arm sweep in/out (cable controlled)
- Originally controlled by Wii Nunchuck
 - o 2019 update: controlled by flex sensors in a glove
- Powered by a portable phone charger
- Electronics:
 - Arduino Atmega 2560 + Servo Shield
- Software/Programming
 - Arduino

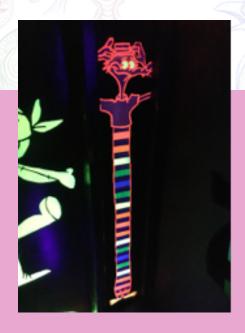
Heffalumps and Woozles 3D Halloween Walkthrough

Characters from "The Many Adventures of Winnine the Pooh" Created: 2018















- Joint project with my sister
- 25 ft wooden tunnel shaped like "W" with:
 - 22 painted characters
 - Wooden cutouts
 - o A "follow-me-eyes" effect
 - o An infinity mirror illusion
- UV fluorescent paintings that appear 3d with Chromadepth Glasses

Concepts and Designs



Left Page:

- *Top left:* Creature concept (digital + pencil sketch)
- Right: Cable puppet concept and blueprint (digital + pencil sketch)

Right Page:

- *Top Left:* Figment Maquette, character belongs to Disney (Monster clay)
- *Top Right:* Creature/character concept (pencil sketch)
- Bottom: Creature designs (digital)

