

Amanda Jarvis

Design Work
& Samples



Motion MIDI

Wearable accelerometer driven MIDI controllers turn motion into music. The controllers wirelessly connect to a smartphone or computer via Bluetooth to interface with synthesizer software.

Currently being prototyped in collaboration with circus artists, engineers, and educators in the arts to create open sources interfaces for artists and designers to more easily include interactive technology in their work and research.

Video Documentation
[Motion MIDI Hula Hoops](#)

[Motion MIDI Aerial Acrobatics](#)

[Motion MIDI Bluetooth Prototypes](#)



Rag Harp, 2019

Recycled textiles, microelectronics and sensors

Sculpture is activated when sensors embedded in the yarns are manipulated. This musical sculpture is being created in collaboration with members of the MIX Fiber Arts Guild. When complete the harp will be a mobile environment for creative expression.

Exhibited at NOVA Maker Faire 2019 &
Mason STEAM Expo 2019

[Video documentation](#)



Rocking Chair
RAGBISCUIT
Post consumer materials

- It takes about 713 gallons of water to make 1 cotton t-shirt. When you buy clothing you therefore "use" water from wherever the cotton was produced.
- 1.6 billion people, or almost one quarter of the world's population, face economic water shortages.
- There is enough water to go around but it is distributed unevenly and too much of it is wasted, polluted and unsustainably managed.

Design: Michelle Smith & Amanda Jarvis



Rolling Stool
RAGCAR
Post consumer materials

- It can take over 2000 gallons of water to produce one pair of jeans.
- 47% of the world's population will face severe water shortages by 2030.
- Water scarcity is both a natural and a human-made phenomenon.
- The Aral Sea, once the world's 6th largest lake, was drained to support water-intensive agricultural practices including cotton farming.

Design: Michelle Smith & Amanda Jarvis



Rag Furniture, 2019
Recycled denim, recycled plywood

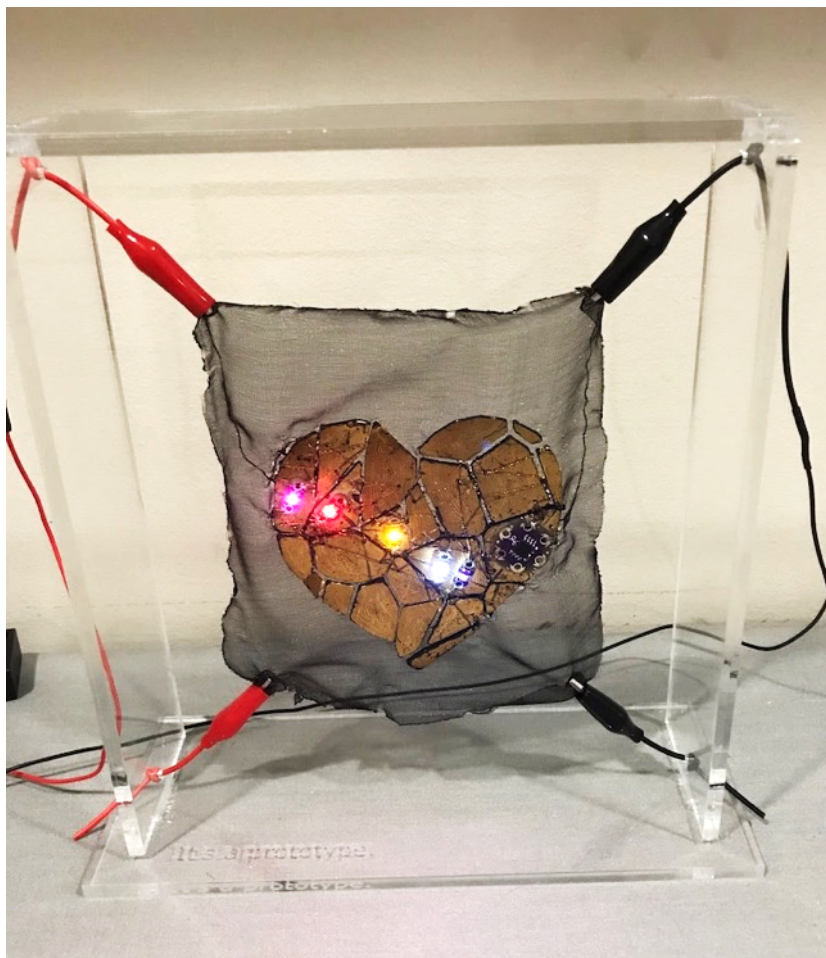
Made in collaboration with Michelle Smith to activate communal space in the art building at GMU for a Public Art Practice course. Price tags contain QR Codes and facts about global water shortages and consumption related to manufacturing garments and textiles.



"Hug of Death", 2019
Recycled textiles, electronic switches

Sculpture is activated when hug completes the circuit and performs an action in a video game. Created as a piece for larger group sculpture, "Sculpture Kombat" project for Brian Davis's Sculpture I class at GMU.

Sculpture Kombat was created and shown for GMU's Off the Wall event. Also exhibited at a pop-up event at Torpedo Factory Art Center.

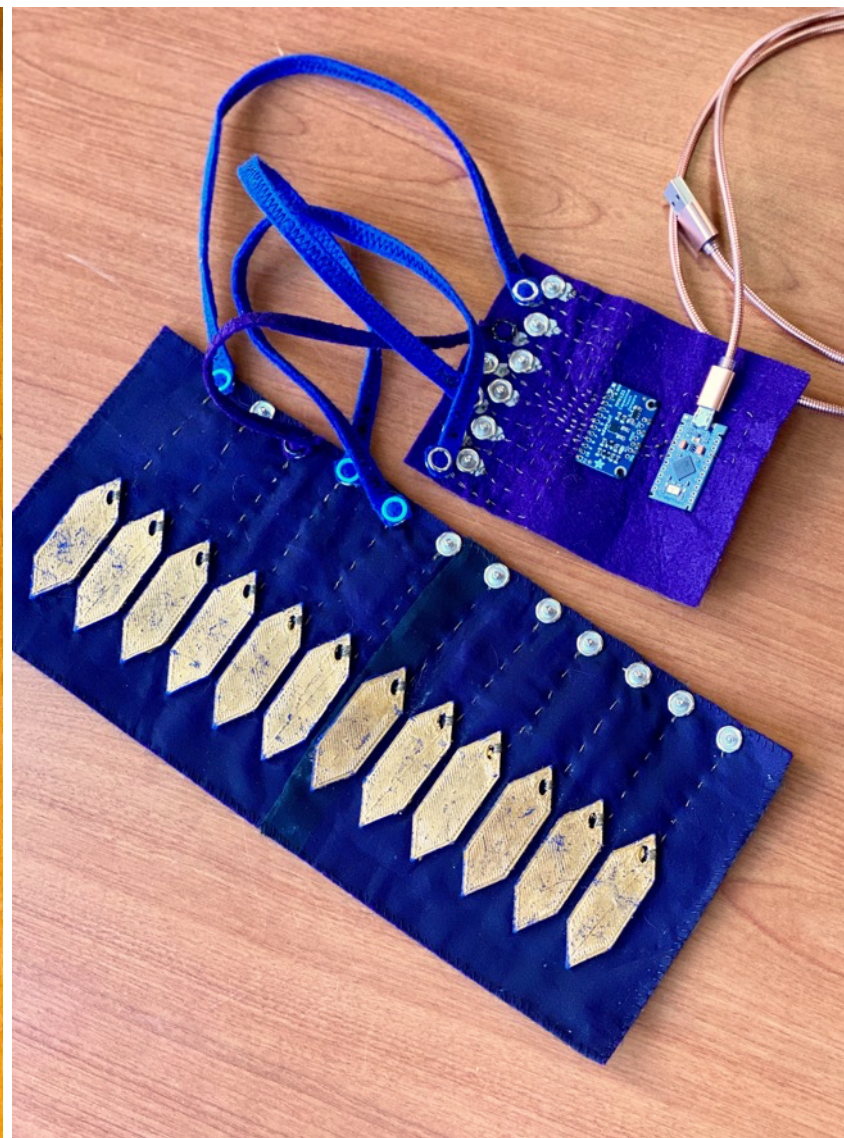
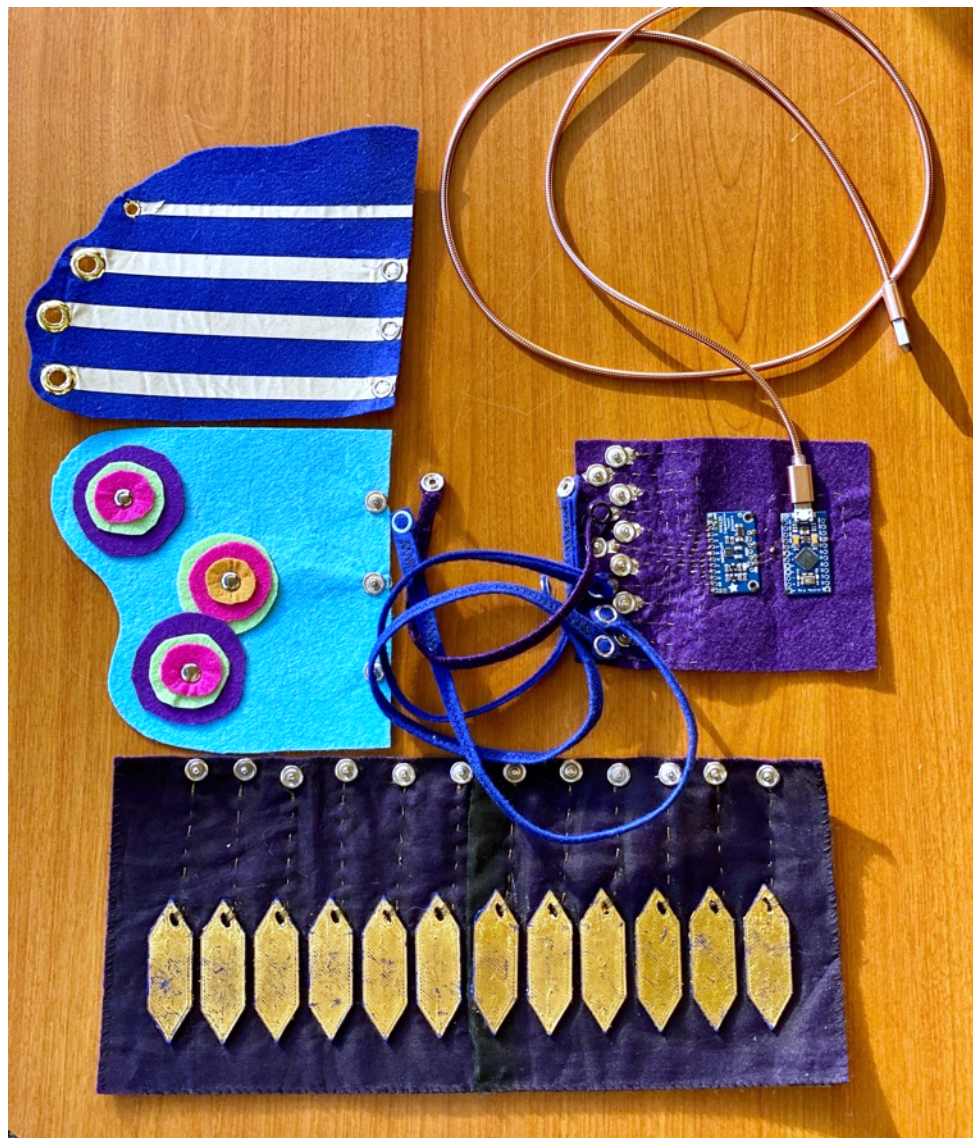


Electric Heart, 2018

3D printed soft circuit on fabric, LEDs, microcontroller

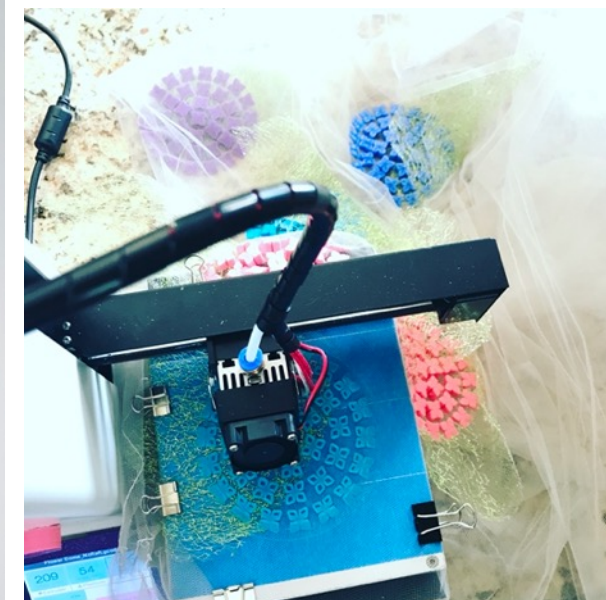
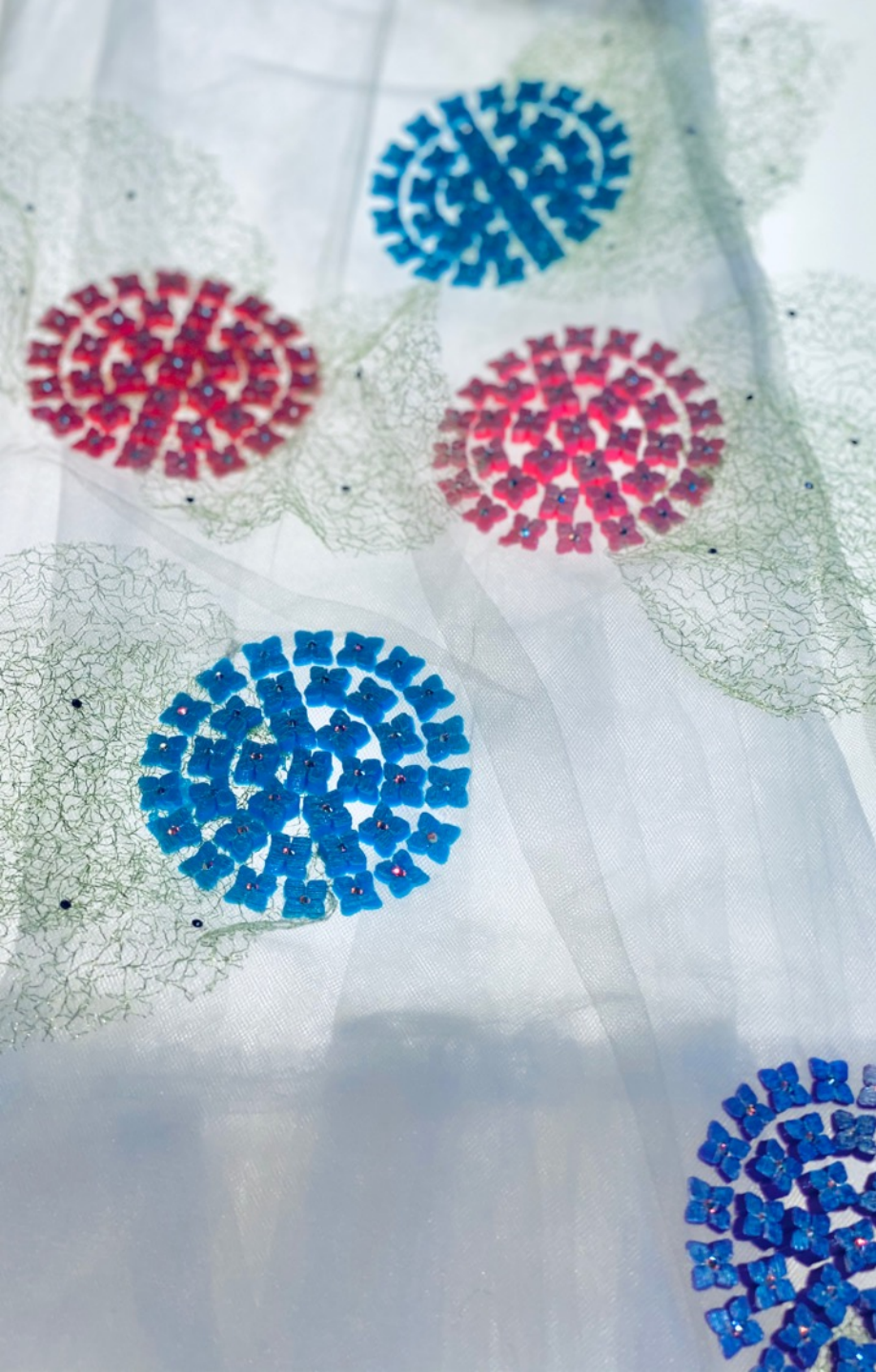
Electronic components were soldered to the 3D printed surface after applying gold leaf. Circuit traces were made with conductive gold threads.

[Video documentation](#)



3D Printed Midi Keyboard, 2018

Modular “soft breadboard” attaches to a 3D printed keyboard. Other snap-able components can be attached to the capacitive sensing MIDI controller. Still in development as an educational tool for soft circuits.



3D Printed Hydrangea Dress, 2017
3D printed hydrangeas on tulle

Exhibited at NOVA Maker Faire 2018

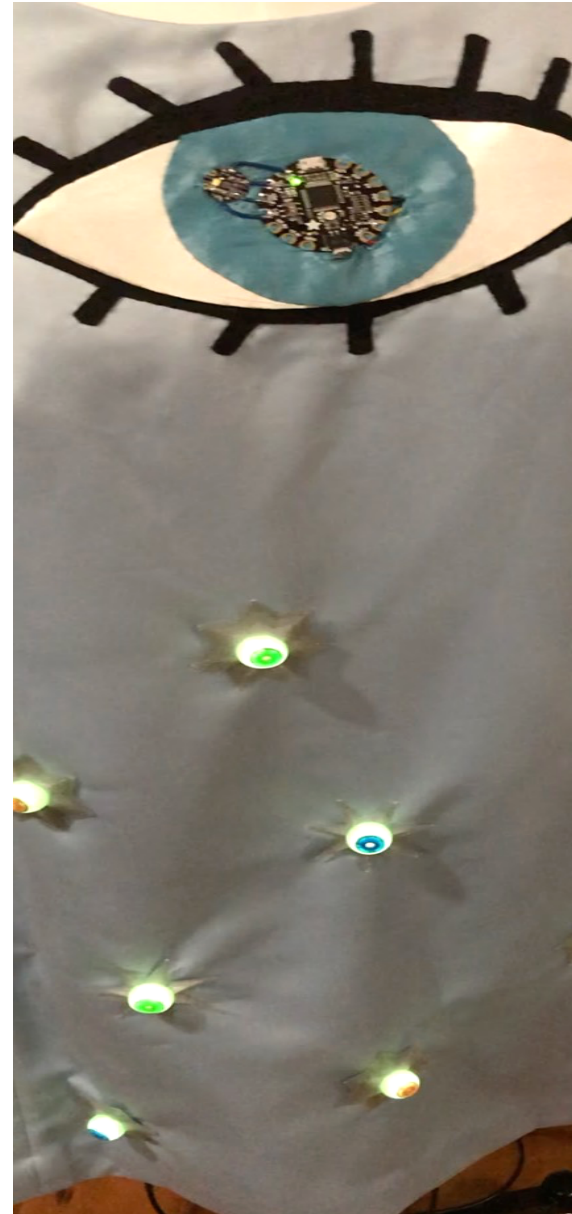
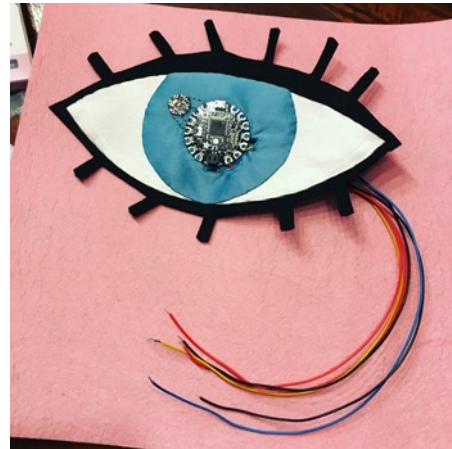


3D Printed Candy Fashion, 2017
Dress; 3D printed gummy bears on tulle
Purse; 3D printed gummy bears in vinyl packaging



Floral E-textile sample, 2017

Silk flowers, glass beads, LEDs, microcontroller
programmed with twinkle effect.



Electric Eyeball Dress, 2018
3D Printed eyeballs, programmable LEDs and
Flora microcontroller

Dress responds to color of objects held up to
the large "eye" and triggers color changes in
LEDs located in the smaller "eyes" on the dress.

Exhibited at NOVA Maker Faire 2018

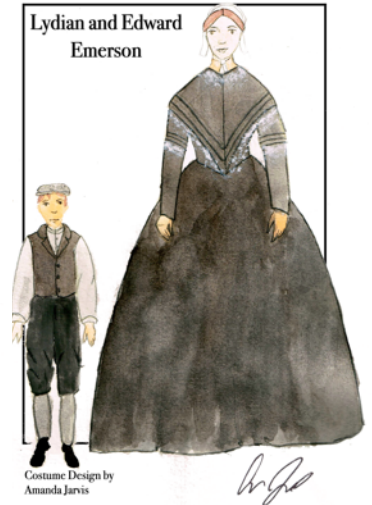
The Night Thoreau Spent in Jail
Mason Players 2018



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The Night Thoreau Spent in Jail
Mason Players 2018

Director: Edward Gero
Set Designer: Luciana Steccoli
Lighting Designer: Maggie Riegel
Costume Designer: Amanda Jarvis
Photography: Ed Parker



Iolanthe
Mason Opera 2017

Artistic & Stage Director: John Aler
Music Director/Conductor: Joseph Walsh
Costume Designer: Laurel Dunayer
Assistant Costume Designer: Amanda Jarvis

Assistant costume designer and wearable electronics consultant for Mason Opera's production of Gilbert and Sullivan's Iolanthe at George Mason University. Integrated wearable electronics including LEDs and LilyTwinkle microcontrollers into over 16 costume pieces.



**Gogol's Nose
and Other Strange Tales from the City**
Mason Players 2017

Directors: Kristin Johnsen-Neshati and David Gaines
Costume and Set Designer: Vladimir Shpitalnik
Assistant Costume Designers: Amanda Jarvis and Joseph Mitchell

Assistant costume designer and costume crafts. Costume craft pieces from plastic bottles and other found items based on inspiration from designer's renderings.