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SOMATIC SYSTEM

NAME
Somatic System

DESIGNER
Kathryn Blair

SHOW
MakeFashion 2013

STORY
Regulating mood

DESIGN
Somatic System is a coat that uses skin temperature and pulse rate to extrapolate the wearer’s mood, and then uses sound and light to regulate it.

REFERENCE
PROXIMA

NAME
Proxima

DESIGNERS
Laura Dempsey and SAIT ARIS RADLabs

SHOW
MakeFashion 2014 Gala

STORY
Proxima is a love story. This piece projects a physical manifestation of the ‘electricity’ between two lovers as they move closer to one another.

DESIGN
Programmed to light up based on the proximity of RFID tags hidden within the male dancer’s costume, the female dancer’s jacket lights up only when he comes near. The closer he comes to the female dancer, the more the lights sparkle. The jacket responds not only to proximity, but also directionality. When the dancers face each other, the front of her jacket lights up, and as she moves around him, the light follows the part of her body that is closest to his.

REFERENCE
COMMON EXPERIENCE

NAME
Common Experience

DESIGNER
Kathryn Blair

SHOW
MakeFashion 2014 Gala

STORY
What if everyone knew how much attention you were paying to them?

DESIGN
Common Experience uses the EEG data of the wearer to control colour and tension on the garment. Made with a Neurosky headset, Raspberry Pi, and RGB LEDs. The garment turns red and contracts when the wearer concentrates, and turns blue/purple and opens up when the wearer was less focused.

REFERENCE
ONNA – BUGEISHA

NAME
Onna – Bugeisha

DESIGNERS
Matt Laprairie and Hazel Brandreth

SHOW
MakeFashion 2015

STORY
Onna – Bugeisha is inspired by the female Japanese warrior, empowering women’s equality.

DESIGN
Carbon fiber, fiberglass and titanium. LEDs light up fiber optics embedded in the corset and skirt, and 10 neopixel panels are used in the dress and arm guards. In total, over 3400 LEDs are used throughout the outfit, controlled by Spark Core and synchronized through wireless communication.

REFERENCE
NAME
Hagoromo

DESIGNER
Erina Kashihara

SHOW
MakeFashion 2015

STORY
Tradition meets technology by combining an old cultural story of the celestial robe with new technology.

DESIGN
Two kimonos with a smoky glow around the models, through layers of transparent thin organdy and particles of light swirling. With the movement of the fan, the kimonos embody the idea of a “brilliant celestial robe dance”. Motion sensors in the fan trigger lighting effects in the kimonos.

REFERENCE
White Light // Black Light

NAME
White Light // Black Light

DESIGNERS
Laura Dempsey and Hannah Newton

SHOW
MakeFashion Xiamen Fashion Week 2015

STORY
White Light // Black Light embodies the adage that things are not always what they seem. People leave marks on us and others view those marks as our own.

DESIGN
The cape, skirt and blouse created for the White//Light dancer are embroidered and sewn with photoluminescent (glow in the dark) beads and thread. Bedecked in a light-pulsing vest and UV gloves, the Black//Light dancer uses her gloves to reveal White//Light’s photoluminescence onstage. The more the two dancers interact, the more they become illuminated.

REFERENCE
POSITIVE FEEDBACK

NAME
Positive Feedback

DESIGNERS
Kathryn Blair and Ryan Blair

SHOW
MakeFashion Maker Faire Bay Area 2015

STORY
Has the ease with which we observe and scrutinize each other’s social activity changed how we see each other? If everyone could see at a glance that you’re burning up on Twitter – would you want to show off?

DESIGN
The dress starts off as a traditional party dress. But when the wearer receives social media activity, the dress illuminates and the skirt moves, revealing sparkling ruffles.

REFERENCE
NAME
Musethereal

DESIGNERS
Angie C, Jacqui Lewis, Kent Brockman, and Ksenia Nadkina

SHOW
MakeFashion 2016

STORY
Musethereal visualizes how brain activity changes during a live musical performance. The design is inspired by the neuron, the basic cell of the human brain and nervous system.

DESIGN
The LED lights in the chest are linked to 13 EEG sensors worn by the model. The LED light strands on the arms are triggered by accelerometers to represent electrical impulses coming into the cell body. The skirt of the dress represents the synapses and connections to other cells in the neural network.

REFERENCE
NAME
Gamergirls

DESIGNERS
Stacey Morgan, Kenzie Housego, Sophie Amin, and Alexis Friesen

SHOW
MakeFashion 2016

STORY
Gamergirls celebrates women in gaming. The design allows the wearers to play an arcade style video game together, using each other’s dresses as the display.

DESIGN
It is a one of a kind design featuring two identical sleek structured feminine dresses with the front panel as the game display. The retro style 8-bit video game is controlled by paired smartphones connected via Bluetooth. Game scores are represented by 3D-printed shoulder crystals that light up and change colour, indicating to the player how their opponent is scoring.

REFERENCE
NAME
Sirens

DESIGNER
Catherine Larose

SHOW
MakeFashion 2016

STORY
Sirens is a performance about passion, collaboration, risk and evolution, inspired by the sirens of mythology and the infinite cosmos. Sirens was created for women in STEM.

DESIGN
The three costumes incorporate gesture sensors and pressor sensors to activate lighting effects on the 3D-printed spines during a choreographed dance.

REFERENCE
GEOMETRICAL CELLS – CONTACT

NAME
Geometrical Cells – Contact

DESIGNER
Erina Kashihara

SHOW
MakeFashion 2016

STORY
Geometrical Cells is inspired by human body cells. Cells have memories of human evolution, and the human body continues its journey alongside those memories.

DESIGN
The glow of the light flows slowly like the lymphatic flow, and it sometimes sparks like a release of energy. Speaking with gestures and light, when the models hold their hands up to each other, inferred sensors would read the other and change the light patterns on their garments.

REFERENCE
Inspired by the impact of anxiety and depression on millions of people, the design represents the heart chakra (love, joy, inner peace) and the solar plex chakra (self-worth, self esteem, self-confidence). The intention is to raise awareness on mental health and how it affects the people around us, represented by a clutch.

Proximity sensor in the clutch triggers the lights in the heart on the bodice and the belt.

THE Matriarch Speaks

NAME
The Matriarch Speaks

DESIGNERS
Indy City: Angel Aubichon and Alexandra Manitopyes

SHOW
MakeFashion 2017

STORY
The Matriarch Speaks is a tribute to Indigenous Women.

DESIGN
Tradition indigenous dress design worn for both ceremony and cultural celebrations, constructed symbolically with a connection to Mother Earth creating a futuristic reimagining of an ancestral design using fibre optics. The gentle swaying of the fringe extending from the arm represents the dignity and grace in which a woman carries herself.

REFERENCE
STEAMPUNKS COLLECTION

NAME
STEAMPunks Collection

DESIGNERS
Virtually Vogue: Catherine Larose, Dianne Gibson, Preston Haffey, Kelly Hofer, and Shannon Hoover

SHOW
MakeFashion 2017

STORY
Breaking gender norms and empowering women through rebellious wedding dress designs.

DESIGN
Alternative wedding dress design with fibre optic mohawk headpiece and back light prosthetic covers designed by ALLELES Design Studio.

REFERENCE
AFFINITY

NAME
Affinity

DESIGNER
Sydney Pratte

SHOW
MakeFashion 2017

STORY
Illuminating the affinity between members of a pack. Inspired by the colours of the Northern skies and the bonds between dogs and their people.

DESIGN
The lights on the two dresses are designed to react based on proximity to Bentley the dog. The proximity transmitter is in Bentley’s collar and the receivers in the models’ dresses. The first dress worn by Bentley’s owner turns on when Bentley is close and pink when he is near. The second dress, worn by Bentley’s auntie, also turns on when Bentley is close but stays blue when near to show the different relationship.

REFERENCE
NAME
Re:Familiar

DESIGNERS
Little Dada: Hillary Predko, Lindy Wilkins, Alanna Predko

SHOW
MakeFashion 2017

STORY
Re:Familiar is an outfit that reimagines drones as witch’s familiars. Like familiars, drones are servant, spy and companion all at once. The drone follows the model, and surrounds her with billowing silk chiffon.

DESIGN
This project features AR Parrot drones carrying the train of a dress down the runway. These drones are controlled by custom software. The bodice is painted with photoluminescent pigments and back-lit with UV LEDs, giving it an ethereal glow. Fans at the model’s hip give the silk on the garment its billowing effect.

REFERENCE
DOUBLE VISION

NAME
Double Vision

DESIGNER
Erina Kashihara

SHOW
MakeFashion 2017

STORY
Every ordinary girl has a beautiful sparkle in her heart and it can be glimpsed at times, but just as a flower opens, someday she will release everything.

DESIGN
A seemingly simple dress until a panel reveals the beauty inside. The outer layer uses electro-chromatic technology to interchange between a transparent and an opaque state by applying voltage. The opaque state represents the common outside appearance. The transparent state slowly reveals the inner beauty of the model as the garment moves down the runway. The LED crystals under the outer layer represent the model’s inner beauty.

REFERENCE
DREAM DRESS

NAME
Dream Dress

DESIGNERS
Virtually Vogue: Catherine Larose, Katherine Funk, Katherine Blair

SHOW
MakeFashion 2017

STORY
We don't always remember our dreams, but what if we could relive them?

DESIGN
Dream Dress uses pre-recorded dream data compressed the data to a 2 min presentation, replaying the dream across the dress through LED effects.

REFERENCE
NAME
Released

DESIGNERS
Dianna Smith and Shawna Davey

SHOW
MakeFashion 2018

STORY
Being broken down by verbal abuse and building back up again.

DESIGN
Released used wire cage like pieces over the body representing being caged in. Lighting effects represent the effects of verbal abuse.

REFERENCE
THE MEDICINE WOMAN

NAME
The Medicine Woman

DESIGNERS
Indi City: Angel Aubichon, Alexandra Manitopyes, and Alina Crow

SHOW
MakeFashion 2018

STORY
Traditional indigenous jingle dress design with LEDs to lend a modern twist to the antique design.

DESIGN
Model performed a traditional jingle dress dance down the runway to traditional music. First nations people believe in the healing powers of music and dance, first done during a pandemic. The Medicine Woman is a traditional jinggle dress design with LEDs around the skirt along the bells and LEDs in the hair piece.

REFERENCE
**NAME**
Breathe

**DESIGNERS**
Katherine Funk and Kathryn Blair

**SHOW**
MakeFashion 2018

**STORY**
*Breathe* is meant to help with anxiety and other mental illnesses by letting everyone know the wearer’s mood. The idea being to help avoid misunderstandings with people around you.

**DESIGN**
Green LEDs conceptualized a positive and happy mood, yellow is 'be careful' and red is a negative mood. The model triggered the LED effects by setting their anxiety level with a soft potentiometer.

**REFERENCE**
TUNE

NAME
Tune

DESIGNER
Kathryn Blair

SHOW
MakeFashion 2018

STORY
Tune is an exploration of the signal and noise that exist around us, at all times.

DESIGN
Using electromagnetic field sensors, the garment detects signal and noise and visualizes it on a grid of lights, giving a fluttery impression of the invisible flow of information and control systems all around us.

REFERENCE
THE WOMAN CHIEF

NAME
The Woman Chief

DESIGNERS
Indi City: Angel Aubichon and Alexandra Manitopyes

SHOW
MakeFashion 2019

STORY
The Woman Chief represents the steadfast legacy of Triarchial societies that strongly ties Indigenous Women today to leadership roles. Women’s fancy shawl dance represents the opening of a cacoan when a butterfly emerges.

DESIGN
The Woman Chief incorporates dynamically changing LEDs in the shawl.

REFERENCE
Social Touch

Designers
Sydney Pratte and Shannon Hoover

Show
MakeFashion 2019

Story
Designed to highlight the acceptable regions on a woman’s body it is acceptable to touch based on the social relationship.

Design
Social Touch uses proximity sensors to show the different social relationships. As the model moves down the runway the lights changed colour and pattern to show acceptable touch regions. The further the model moves down the runway, the more distant the relationship.

Reference
**NAME**
Firestorm

**DESIGNER**
Ujamaa Grandmas: Joyce Goddard, Carol Goddard, Maggie Herr, Janice McDonald, and Ellen Monaghan

**SHOW**
MakeFashion 2019

**STORY**
Ujamaa Grandmas, part of the Grandmothers Campaign of the Stephen Lewis Foundation, are creating climate change garments in support of the African Grandmothers raising 14 million children orphaned by AIDS. Firestorm is one of their signature jackets symbolizing wildfires around the world burning hotter, faster and with a ferocious intensity not seen before.

**DESIGN**
Firestorm uses LED effects to accentuate the fire design in the jacket.

**REFERENCE**
JELLYFISH -MIRA-

NAME
Jellyfish -MIRA-

DESIGNER
Erina Kashihara

SHOW
Future Oceans 2019

STORY
Jellyfish -MIRA- was designed with the jellyfish as inspiration in the hope that the jellyfish can contribute to the sea of the future with its mysterious existence.

DESIGN
Jellyfish -MIRA- is a luminous jellyfish inspired design created from reclaimed ocean plastic collected off a beach in Japan. The plastic was used to make tentacle like diffusers for LEDs, giving the garment its electric jellyfish appearance.

REFERENCE
NAME
Bacata

DESIGNERS
Maria Orduz Pinto, Brett Kostka, Martha Orduz

SHOW
MakeFashion 2019

STORY
Bacata is an exploration in the ancient Colombian roots from the designer. Drawing inspiration from El Dorado, it focuses on the mixing of traditional indigenous pre-colombian artifacts with cutting edge design and technology bringing a perfect pairing between the scared ancient and the future.

DESIGN
Bacata uses LEDs in the skirt to create the shimmering gold effect and accentuate the laser-cut patterns.

REFERENCE
### CONNECTED

**NAME**  
Connected

**DESIGNER**  
Robots Are Fun: Ashley Voision

**SHOW**  
MakeFashion 2019

**STORY**

*Connected* explores how fashion and technology can combine to connect the person wearing the dress to their world. Laser-cut silk with a circuit design that symbolizes the increasing dependency of society has on technology to be connected to family, friends, and global events. The metallic outer shell symbolizes the shield that exists between our true selves and the persona that we share online.

**DESIGN**

Dynamic LEDs in the under layer of the skirt highlight the laser-cut patterns in the outer shell.

**REFERENCE**