

ARTIFACT SET

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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

Kathryn Blair. 2013. *Somatic System* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2013. March 2013. Photos by Faby Martin and Jeff McDonald.
<https://youtu.be/iVoTqWrPCWE?t=110>

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

Laura Dempsey. 2014. *Proxima* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2014. March 2014. Photos by Andras Schram and Edward Ross. <https://www.youtube.com/watch?v=2OjLPT7AL8c&list=PLUq06JsR3wA7rnHwzTZnUnwUQ2bw3kf1u&index=2>

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

Kathryn Blair. 2014. *Common Experience* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2014. March 2014. Photos by Kelly Hoffer, Edward Ross and Trevor Lalonde. <https://youtu.be/fMXNRbl4Uvo?t=120>

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

Matt Laprairie and Hazel Brandreth. 2015. *Onna-Bugeisha* [Fashion-Technology/Wearable Art]. Presented at Make-Fashion Gala 2015. March 2015. Photos by Rafal Wegiel.
<https://youtu.be/BcVeKrLSWOk?t=82>

HAGOROMO

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

Erina Kashihara. 2015. *Hagoromo* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2015, March 2015. Photo by Rafal Wegiel and Kelly Hofer. <https://youtu.be/BcVeKrLSWOk?t=151>

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

Laura Dempsey and Hannah Newton. 2015. *White Light // Black Light* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Xiamen 2015. 2015. Photo by Zev Vitaly Abosh. <https://youtu.be/dvuBpKj3vus?t=97>

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

Kathryn Blair and Ryan Blair. 2015. *Positive Feedback* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Maker Faire 2015. May 2015. Photos by Make Photo and Zev Vitaly Abosh. <https://youtu.be/nDNxe7DREgA?t=77>

MUSETHEREAL

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

Angie C, Jacqui Lewis, Kent Brockman, and Ksenia Nadkina. 2016. *Musethereal* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2016. April 2016. Photos by Kelly Hoffer, Ernesto Augustus and Jeff McDonald. <https://www.youtube.com/watch?v=MRO4wN6XviY&t=91s>

GAMERGIRLS

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

Stacey Morgan, Kenzie Housego, Sophie Amin, and Alexis Friesen. 2016. *Gamergirls* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2016. April 2016. Photos by Kelly Hoffer, Ernesto Augustus and Jeff McDonald. <https://www.youtube.com/watch?v=QMbdJ6QYzfo>

SIRENS

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 pressure sensors to activate lighting effects on the 3D-printed spines during a choreographed dance.

REFERENCE

Catherine Larose. 2016. *Sirens* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2016. April 2016. Photos by Ernesto Augustus. https://www.youtube.com/watch?v=qUq8P2yKA_4&t=199s

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

Erina Kashihara. 2016. *Geometrical Cells - Contact* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2016. April 2016. Photos by Ernesto Augustus and Kelly Hofer. <https://www.youtube.com/watch?v=DNM4ljXdsI>

I[HEART]

NAME

i[heart]

DESIGNER

Maria Elena Hoover

SHOW

MakeFashion 2017

STORY

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.

DESIGN

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

REFERENCE

Maria Elena Hoover. 2017. *i[heart]* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2017. April 2017. Photos by Doug Wong and Paul Spenard. <https://www.youtube.com/watch?v=4R45thkV-iU>

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 reimaging 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

Angel Aubichon and Alexandra Manitopyes. 2017. *The Matriarch Speaks* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2017. April 2017. Photos by Kelly Hoffer, Larry K., Chuck Szmurlo and Jeff McDonald. <https://www.youtube.com/watch?v=kTOEhrHE-BA>

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

Catherine Larose, Dianne Gibson, Preston Haffey, Kelly Hofer, and Shannon Hoover. 2017. *STEAMPunks Collection* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2017, April 2017. Photos by Larry K. and Chuck Szmurlo. https://youtu.be/QuE_7vVCGos?t=81

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

Sydney Pratte. 2017. *Affinity* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2017. April 2017. Photos by Doug Wong. <https://www.youtube.com/watch?v=eGunQMdMYag&t=1s>

RE:FAMILIAR

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 photo-luminescent pigments and back-lit with UV LEDs, giving the it an ethereal glow. Fans at the model's hip give the silk on the garment it's billowing effect.

REFERENCE

Hillary Predko, Lindy Wilkins, and Alanna Predko. 2017. *Re:Familiar* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2017. April 2017. Photos by Edward Ross, Vian Esterhuizen, and Kelly Hofer. https://www.youtube.com/watch?v=8nJN_VLapOI

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

Erina Kashihara. 2017. *Double Vision* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2017. April 2017. Photos by Kelly Hofer, Ruth Fredrek, Doug Wong, Jeff McDonald, and Edward Ross. <https://www.youtube.com/watch?v=iRduAkKNFMc>

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

Catherine Larose, Katherine Funk, and Katherine Blair. 2017. *Dream Dress* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2017. April 2017. Photos by Kelly Hofer, David Richeson, and Chuck Szmurlo. <https://youtu.be/yUVWEkYRHyl?t=211>

RELEASED

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

Dianna Smith and Shawna Davey. 2018. *Released* [Fashion-Technology/Wearable Art]. Presented at Make-Fashion Gala 2018. September 2018. Photos by Juan Rivera, Dianna Smith and Shawna Davey. <https://youtu.be/2EexjIKB2uc?t=118>

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

Angel Aubichon, Alexandra Manitopyes, and Alina Crow. 2018. *The Medicine Woman* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2018. September 2018. Photos by Leya Russell and Zev Vitaly Abosh. <https://www.youtube.com/watch?v=C1C6ZAoU4EU>

BREATHE

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

Katherine Funk and Kathryn Blair. 2018. *Breathe* [Fashion-Technology/Wearable Art]. Presented at Make-Fashion Gala 2018. September 2018. Photos by Zev Vitaly Abosh, Larry K. and Doug Wong. <https://youtu.be/2Eexj1KB2uc?t=48>

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

Kathryn Blair. 2018. *Tune* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2018. September 2018. Photos by Juan Rivera, Eluvier Acosta and Zev Vitaly Aboosh. <https://youtu.be/2EexjlkB2uc?t=289>

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 Matriarchal societies that strongly ties Indigenous Women today to leadership roles. Women's fancy shawl dance represents the opening of a cocoon when a butterfly emerges.

DESIGN

The Woman Chief incorporates dynamically changing LEDs in the shawl.

REFERENCE

Angel Aubichon and Alexandra Manitopyes. 2019. *The Woman Chief* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2019. September 2019. Photos by Jeff McDonald and Más Studios Intl. <https://www.youtube.com/watch?v=aRuSBPk4z-c>

SOCIAL TOUCH

NAME

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

Sydney Pratte and Shannon Hoover. 2019. *Social Touch* [Fashion-Technology/Wearable Art]. Presented at Make-Fashion Gala 2019. September 2019. Photos by Jeff McDonald, Larry K., and Vian Esterhuizen. <https://youtu.be/zdaz4fe1j4A?t=138>

FIRESTORM

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 wild-fires 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

Joyce Goddard, Carol Goddard, Maggie Herr, Janice McDonald, and Ellen Monaghan. 2019. *Firestorm* [Fashion-Technology/Wearable Art]. Presented at Make-Fashion Gala 2019. September 2019. Photos by Larry K., and Más Studios Intl. <https://www.youtube.com/watch?v=BeXoszyVJss>

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 it's electric jellyfish appearance.

REFERENCE

Erina Kashihara. 2019. *Jellyfish -MIRA-* [Fashion-Technology/Wearable Art]. Presented at Future Oceans 2019. July 2019. Photos by Kelly Hofer and NewMan BenJammin.

BACATA

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

Maria Orduz Pinto, Brett Kostka, Martha Orduz. 2019. *Bacata* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2019. September 2019. Photos by Jeff McDonald, Más Studios Intl. and Larry K. <https://youtu.be/so6vjH7ZQpM?t=109>

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

Ashley Voision. 2019. *Connected* [Fashion-Technology/Wearable Art]. Presented at MakeFashion Gala 2019. September 2019. Photo by Jeff McDonald. <https://youtu.be/gNH8Cydr27M?t=81>
