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NeilKite.com



















Tower Esplanade: Concept, Design & Development



Commissioned by Lindsey District Council, this scheme was Highly Commended in the Street Design Awards 2020.

Tower Esplanade:

Concept, Design, Development & Project Management

OW FOR 12kg

As a historically much-loved seaside town with a unique character, but with largely dated and ageing infrastructure Skegness needed a change in direction. Working directly with Lindsey District Council and as the fist stage in ambitious regeneration programme focusing on Tower Esplanade, the main gateway to the sea the sea.

I developed the concept with arches to frame the clock tower along with projected lighting effects and multiple variations of decoratively shrouded columns with programmable lighting effects.



Coastal Columns & Trees: Design & Development Construction Design & Project Management













I developed these concept visuals, and generated the construction drawings and detailing from initial loose concepts by Sutton Vane Associates to help modernise the seafront and help strengthen the nighttime economy.





Apple: Blade, Fascia & Pendant

Unsurprisingly Apple takes the physical embodiment of its logo very seriously. The logos are considered Apple products and so the design, engineering and attention to detail are paramount.

While at Endpoint I was responsible for engineering, design and production of much of the current range of storefronts and internal European Apple Store logo products, working directly with Apple's associated design team to present my work and oversee the products fabrication and delivery.











Selfridges: Sculpture Mobile Design, Development & Project Management

Celebrating the launch of their new Body Studio, Selfridges flagship Oxford St Store commissioned Hothouse to provide a suspended sculptural display spanning their entire 30 m central atrium, featuring elegant figures up to 4 m in height in varying athletic poses with flashing neons.

One of the key objectives was fully honouring the desired aesthetic in 3D form. The forms were developed via CAD then broken down into weldable sections and fabricated before combining and welding to build each full figure.

As a quick turn around project, everything was designed, developed and produced in a matter of weeks.













Design & Development: Stevenage New Town





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The best available imagery of the original was then scaled to suit the new requirements with the technology updated to modern standards. The original glass shades became rotationally moulded MDPE, selected for durability and light diffusion, with the light source updated to the latest LEDs positioned to optimise light distribution across the shade



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Stevenage New Town: Design, Development & Project Management











Urban Control: Programming Jigs

Urban Control, a start-up company creating control nodes required a series of jigs to help programme their circuit boards.

For speed and efficiency, I designed these to be 3D printed with mountings for wired-in test probes to align and programme the circuit boards. The boards were guided into place by the contours of the jig body before being held by tuned locking mechanisms allowing quick release when complete.

A variety of jigs were developed and trialled for the different boards with one of the first off jig prints going on to successfully programme in excess of 25,000 units on the line without any major servicing.





Garda: Development Work

urbancontrol

a living network

Garda Illuminated handrail is a flagship DW Windsor product, manufactured from thick stainless steel, contain waterproof light modules.

I conducted development of these modules for Garda Comfort edition as well as inline variation for use on Champlain Bridge in Canada where several kilometres of handrail were required.



Pot Noodle Kettle Kup: Design, Development & Project Management Play the YouTube video J

Hot water anytime. anywhere, with this mini rechargeable kettle.

Nover retus your slap again with free Your's

rinted Yellow ABS

Base

MISCHIEF KETTLEKUP PRPLIMINARY DESIGN, PRODUCT SOURCE

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This project by Hothouse for Mischief PR acting on behalf of Pot Noodle was a quick turnaround delivery of two working prototype 'Kettle Kups' the winning concept of the twitter poll of Pot Noodle's 'You can Make it - Time-Saving Invention competition' for which the winner was promised that their invention would be turned into reality and sent to be displayed at the CES Tech Fair in Las Vegas.

As a bespoke, 2 off unit required to boil water in minutes, while being presented live to crowds, before being recharged (again in minutes) ready to be presented again non-stop for the duration of the two-day event.

It had to look the part, work perfectly every time, house all the required tech, be durable, safe and easy to use, contend with both extreme heat and water and be designed, trialled, suppliers and parts sourced, manufactured, assembled and packed up ready for air freight in a matter of days.

chunky 3D printed ABS

screw lock fixing

It was great to see that as well as generating plenty of the desired press coverage, the Kettle Kup even made it to the centrepiece of a Japanese Chindōqu style montage

Heating Element













Nurofen: Sinusitis Masl CAD Design, Development & Project Managemen⁻

Hothouse was approached to firstly investigate the feasibility of creating a mask to simulate the effects of Sinusitis, and upon proving viable to proceed to design and develop that mask, on behalf of Nurofen.

> The project was conducted with early consultation with Harley Street Sinus specialist, who advised on the symptoms and areas of the face for trial as pressure points.

> > NUROFEN (

UROFEN

A 3D facial scan was first conducted on volunteer to supply real human facia contours in 3D digital form for use in the sculpting of concept form before being transferred i engineering C software for the final design and development.

Ladybird: Bug Clips





INTERTIAL MAKER ALLE ANDTON





Reverse Engineering:



Developed for Saatchi & Saatchi-X on behalf of Ladybird these bug clips were intended to bring a bit of character and their brand identity directly into what might otherwise have been purely functional point-of-sale equipment.

Mock-ups were designed and 3D printed for trialling in-store along with a small range of other new point-of-sale elements prior to production.

Design Development: Kirium Range Extension









I undertook the concept development for a new product range of wall lights, bollards and column luminaires. This included maintaining an existing product aesthetic and creating the new product family around it as well as the development and direction leading to the final designs of the new products.









Urban Control: Urban Node





Urban Control is a start-up company creating control nodes for street lighting to allow councils/companies to remotely control their external lights and equipment.

Working closely with their team I developed the casing to house their electronics.

The product has a lifespan of up to 20 years and being mounted externally incorporates an IP67 waterproof seal. The translucency of the plastic allows a limited amount of natural light to enter for which the internal sensor is calibrated, while also protecting the electronics from the detrimental effects of UV.

There was a challenging timeline for development which was conducted in parallel with the ongoing development of the electronics as well as trialling and incorporating off the shelf components to help ease supply constraints.



Above: 3D printed insert shows reconfiguration of the power ports

Below: Translucency grading





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Urban Control: Urban Node CAD Design, Development & Project Management





The casing was developed to fit as closely around the electronics as possible with multiple constraints. The base needed to clip in place once creating the waterproof seal, while also pinning the electronics in place.

A variety of rubber sleeve designs were also created and trialled.

As well as assisting as initial protection against ingress they were also intended to help resist unintended rotation of the product while improving the mounted aesthetic.

urbannode

Above: renders of potential rubber skirting along with 3D printed trials

Below: Trialling additional shock support ribs to support the circuit boards specifically designed to slot into the existing casing.



Feature Walls: Sony Interactive Entertainment HQ

Construction Design, Development

This project utilised dichroic film to achieve colour changing effects on a series of illuminated acrylic bars set into the feature wall behind the main reception at Sony Interactive Entertainment European headquarters in Central London.

The dichroic film acts to filter the light passing through splitting it into bands of colours which varies depending on the viewers position, so in this instance the colours change across the wall on entering and walking past reception.

Rio Tinto London HQ

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MAD



Tate: Chandelier & Map Units Construction Design, Development & Project Management

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line of required for



The chanc ier is Ø3.5 m and due specific winds and bad weather, s ad to be taken into account

TATE

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Expo Stands: je+1& DWW Construction Design, Development & Project Management

jE+1 had a bold vision for their debut internally commissioned trade show stand. Hothouse was commissioned to turn the visual concept into a functional design and complete the subsequent production of the stand.









The angular, stealth-like quality exists throughout and turning this into a workable concept for ease of packing down for transit, and quick assembly/take-down on-site, while utilising all internal space for cupboards and storage proved a rewarding challenge.

















