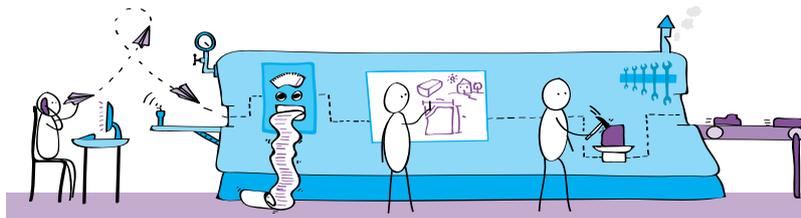


Cerebra Innovation Centre Product Portfolio

CEREBRA 

Working wonders for children
with brain conditions





CERBRA INNOVATION CENTRE
BRIGHT IDEAS FOR BRILLIANT KIDS



Cerebra

Families where a child has a brain condition face challenges every day. Just to learn, play, make friends and experience the world can feel difficult, even impossible. But we don't believe there's any challenge that can't be overcome. So we listen to families, we learn from them. We carry out research, we design and innovate, we make and share. From new equipment to new learning resources, to new ways to play and support each other, everything we find out together makes life better. It opens doors to discovering the world. It's an incredibly rewarding journey for everyone involved. Why not be a part of it? You never know what we'll discover together.

www.cerebra.org.uk



Dr Ross Head
Design Manager



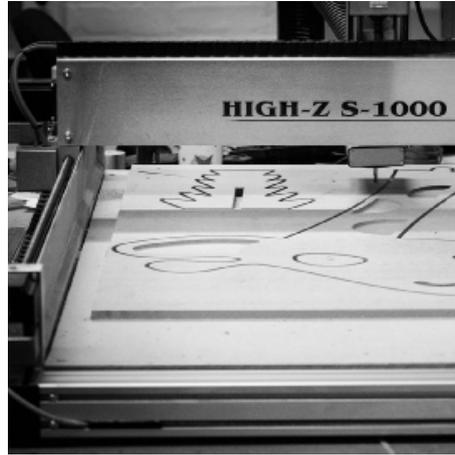
Dan Cuthbertson
Product Designer



Gerallt Devonald
Product Designer



Maria Kemeys
Business Development



Cerebra Innovation Centre (CIC)

We are a small team offering a bespoke product design service for families. Although some equipment is available to buy, it often doesn't look very nice or suit the requirements of some children. We develop logical, innovative and, above all, fun solutions. Our designs aim to reduce some of the social stigma attached to disabilities by making not only functional but also beautiful products for our amazing young people. Some of our products are 'one-off' bespoke designs, others are made in small batches and some are designed with the commercial market in mind.



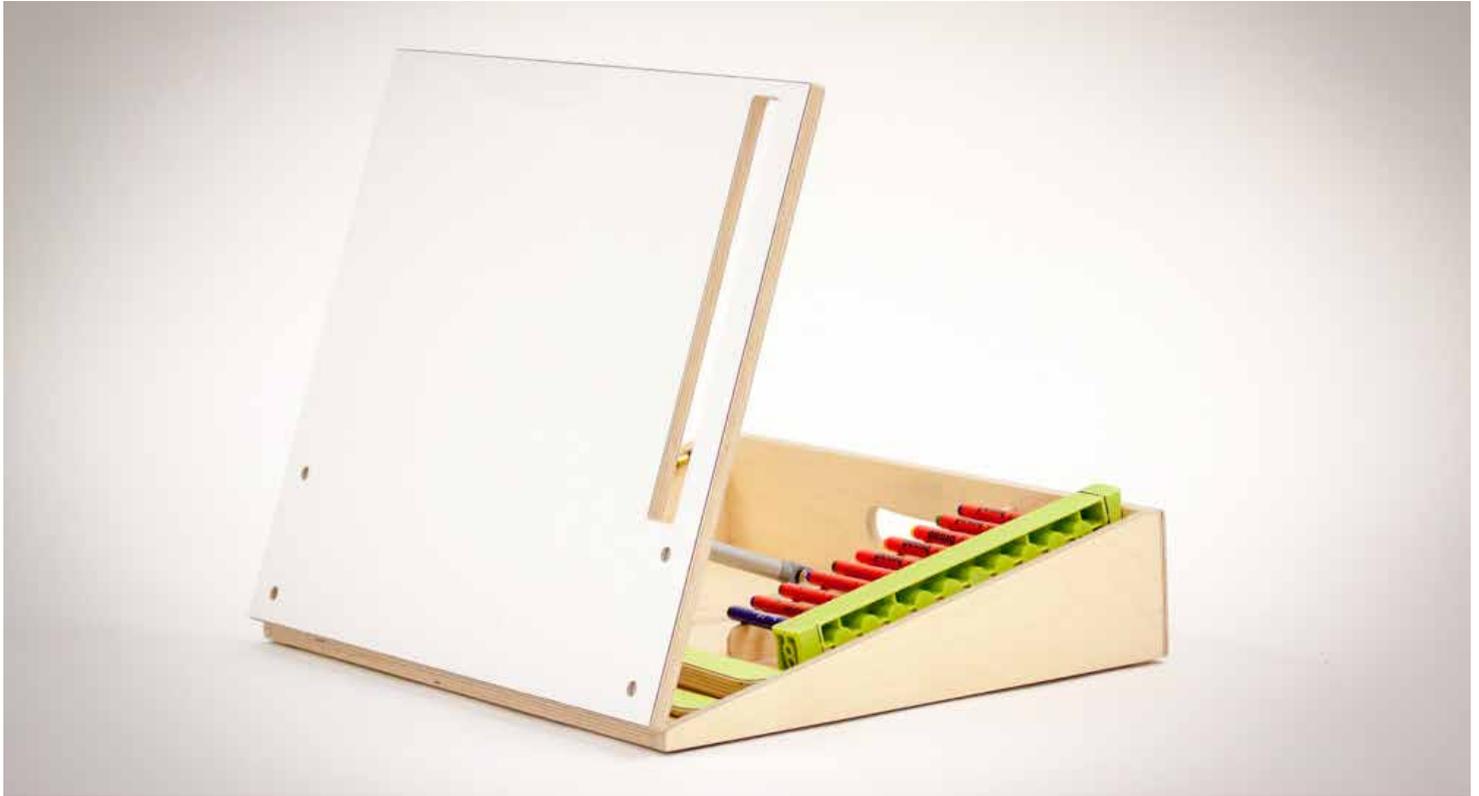
01

iPad Case

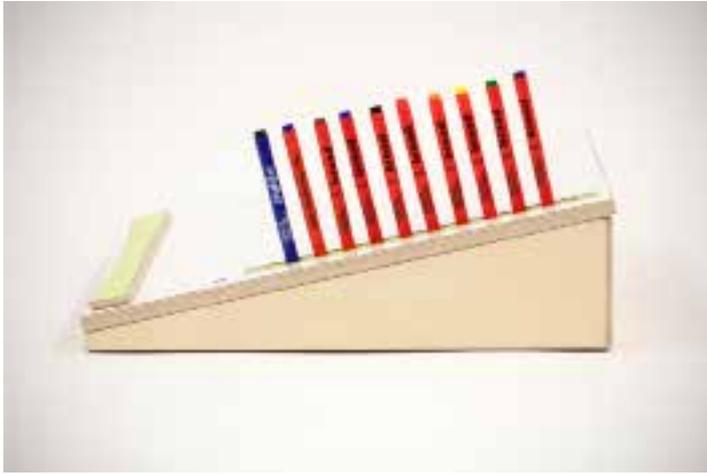
Our iPad case is completely unique, using an EVA foam construction to offer great protection with a fun and colourful exterior. Our case can be attached to a RAM mounting system enabling you to fix the tablet to almost anything, including a wheelchair or our very own table stand shown in the pictures. We have prototyped 10 units receiving excellent feedback so far! The children really enjoy being able to carry and enjoy their iPad's with less help from adults.



"The trial with Cerebra was positive and I recommend these products for those working with special children and young people"



“Our daughter uses the slope every day as a means of aiding her writing, drawing and copying. It has had an extremely positive impact on her daily routine. The writing slope has benefited the whole family”



02

Doodle

We developed Doodle for any child who may need a writing slope to aid their writing, drawing, posture and hand control. We have used magnets and a gas strut for quick removal and changing of the ingenious paper and book holding rulers. We've also included a set of pens stored in an inventive swivelling holder to aid children with reduced motor skills. We believe these innovative features make it the best and most beautiful writing slope available anywhere.



"I loved how tall Carsyn got while on the Scoot. Regularly on his tummy he would not lift that high. This is going to have a huge benefit on his core muscles"

03

Scoot

Developed by Firefly using one of our most popular concepts, Scoot provides an experience of independence for many kids with mobility problems. It frees them to explore their home, play with friends, chase big brothers and race little sisters without any help. Firefly's expert clinicians, designers and engineers worked hard to create Scoot that will help kids discover new skills as well as new pals.



Buy now at: [fireflyfriends.com](https://www.fireflyfriends.com)



Poppy doesn't think 'I can't' but rather 'with a little help I can'. I've got my work cut out though as Poppy doesn't want to just take part – she wants to win!"



04

Team Poppy

We made Poppy's dream come true by designing and making all of the equipment she needed to take her and dad Rob to the finish line of the Cardiff Triathlon in style. Despite being born with quadriplegic cerebral palsy and chronic lung disease, Poppy is a determined character, a real thrill seeker and adrenaline junkie! A huge thank you to everyone that helped us make these cool and unique products a reality, and made Poppy's dreams come true.



“The rocking chairs are great. The twins actually use them at meal times and will stay sitting down as I feed them. As they rock it calms them & provides the sensory input they need”



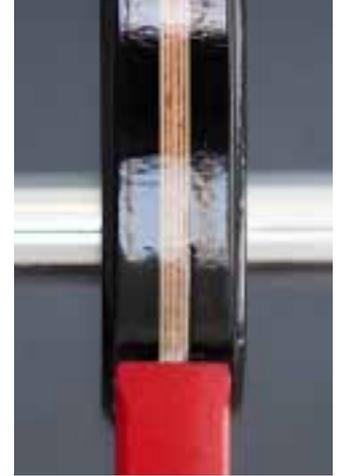
05

Rocking Chair

Proving a hit with many families this concept offers support in a fun, beautiful and portable rocking chair to keep children moving. This aids core muscle development and is incredibly soothing. We designed and developed precise snap-fit joints into the birch plywood construction using our CNC router. The chairs have the additional benefit of being able to pack away flat for transport or storage, They can be reassembled in only a few minutes without using any tools, nuts or bolts.



"The lads spent most of half term on them and always ask to play on them when they get back from school they're brilliant, and definitely their favourite toy! Thank you"



06

Scoot Horse

We developed the Scoot Horse for children to keep exploring once they've outgrown the Firefly Scoot. As children grow taller they need something with a little more leg room while zooming around the house! This Scoot Horse is simple to use and elegantly designed to have a playful, simple appearance. It features four castors for ease of movement and turning, whilst avoiding the use of complex features such as steering or pedals.



07

Riding Helmet

We were approached by a school on behalf of a young man called Tommy Lee. Tommy Lee was unable to participate in their weekly horse riding sessions as the riding centre didn't have a helmet that would fit his unique head shape. So we worked on designing and making this bespoke riding helmet; enabling Tommy to take part in riding lessons with his friends. The helmet was not only comfortable but safe, and thanks to the generosity of the British Standard Institute (BSI) it's certified too, passing the VG I Equestrian helmet tests.



08

Rocking Horse

To create this stunning rocking horse we collaborated with the brilliant design team at Sanders Design in Cardiff. We chose this striking and clever design, incorporating plenty of adjustment for children aged between 4 and 8 years old. It's available with a flat seat or an option that provides enhanced postural support for the rider over a conventional rocking horse. Children love the calming rocking motion which helps build their core strength whilst they enjoy a fun and engaging indoor activity.





“Charlie loves it and now his brother can have his one back. It is brilliantly made and attractive to have in the house! Thank you!”



Available to buy at : fireflyfriends.com

09

GoTo

GoTo is a postural support seat developed by Firefly and CIC that lets children participate in those moments that make family life special. Families worldwide use their GoTo Seats in supermarket trolleys, on planes, swings and Granny's dining chair. They make daily tasks easier, and mean kids don't need to miss out. It gives a little piece of independence that lets them see the world from a new perspective and feel they're at the heart of the action.



“Absolutely fantastic product! The GoTo seat is so easy to use and has allowed us to bring Jake shopping with us anytime we want! It really has changed the way Jake can interact with people around him!”



"Oh wow, thank you..... This is going to promote her independence so much and make a huge difference to all our lives."

10

Oxy-Gem

Oxy-Gem enables children to independently transport their own oxygen cylinders, ventilator or food pump. We've designed a seat for those well-earned breaks and a little added room for fun items like toys and books! Oxy-Gem was developed with a child's independence in mind. Now they are free to explore without constant adult help while being the envy of all the other children in school.

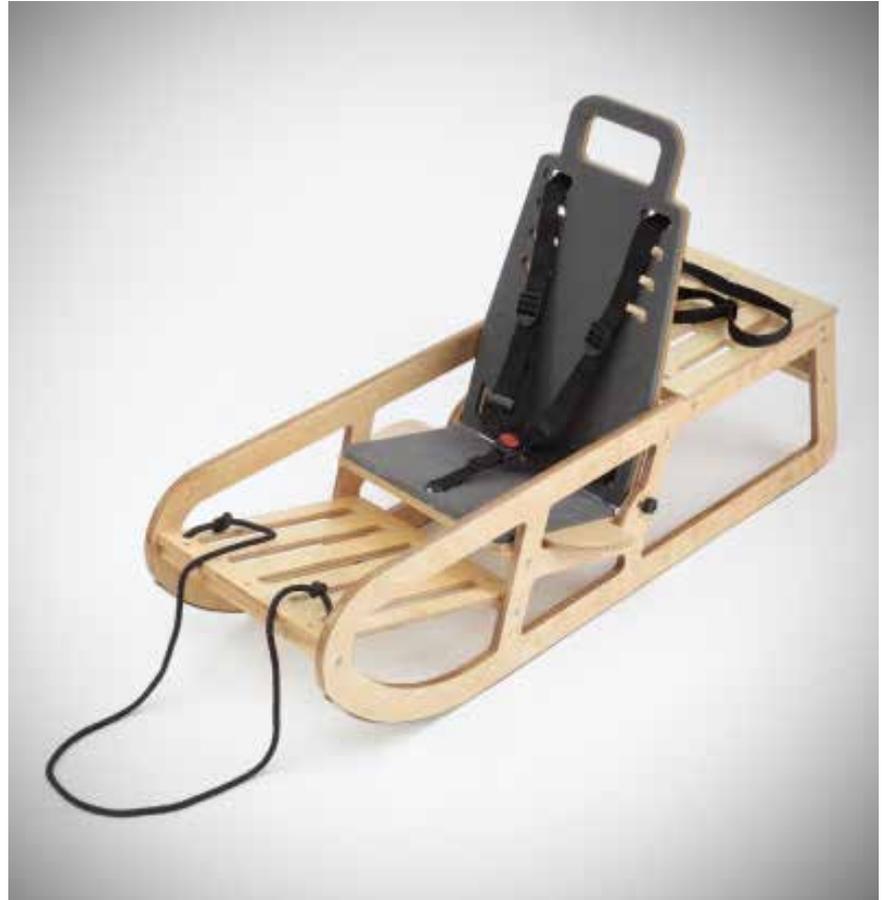




Sledge

For sale at: gordonellis.com

We were contacted by Sarah's mum to solve a slippery problem; getting out and about in the snow with a wheelchair was proving difficult! Using traditional wooden sledges as inspiration, we designed a sledge with a supportive seat and harness built in so Sarah could go and join in with her friends and have fun in the snow! The sledge proved so popular that we collaborated with our friends at Gordon Ellis & Co to launch our very first commercially available product.





"After a deep fall of snow overnight we have eventually managed to get her outdoors on the sledge and she loved every second of it, even asking if we could take her out on it every day"



12

Bounce

Our large bouncer has proven to be an invaluable piece of equipment allowing independent play, exercise and training for bounce happy kids after they've outgrown their traditional baby bouncers. After loads of great user feedback we have incorporated Firefly's GotTo seat into the design that provides secure seating and excellent postural support. The best bit is that while bouncing is loads of fun with lots of smiles, it's also great exercise helping to strengthen legs and core muscles independently in a safe and supportive way.







13

Medical Stand

Our aim was to create a fun and colourful alternative to the stainless steel apparatus currently offered to children needing any portable medical equipment such as food pumps or intravenous drips. Having one of these next to a hospital bed would brighten the day of any young patients. So far we've prototyped a giraffe, rocket and a tree but the possibilities are endless! Maybe we should make a dinosaur next?



14

Surfboard

Created in partnership with Surfability UK and Roger Cooper, our surfboard was designed for children with limited mobility and brain conditions. It allowing wheelchair-bound adrenaline junkies to get out of their chairs and onto the water. The tandem design includes a supportive seat for the child and plenty of space on the back for an experienced surfer to steer it in the right direction. They have been a great success providing endless hours of fun to thrill-seeking children who could not otherwise experience the benefits and thrill of catching waves.



“He’s like the king of the sea. He can sit back relax and ride the wave. It’s amazing and opens up so many options, not just for Kai, but for other children with disabilities.”



15

S.A.V.

Our Surf Access Vehicle (SAV) allows disabled people to access the sea. One or more instructors can control the chair, and there are numerous other points around the chair to help move the SAV over rough terrain, slippery ground or inclines. The SAV is designed to sink into the water so the back rest can lie flat, meaning the surfer can slide off backwards and directly onto the surfboard. Alternatively, the board and surfer can lie prone on the platform and then simply slide straight off and into the water.





16

RAVE

Our inflatable Relaxation, Audio Visual Entertainment (RAVE) tent is one of our most ambitious concepts to date. RAVE is an ultra-portable sleeping, relaxing or sensory stimulating space for children or adults alike. Inspired by kite surfing RAVE packs away into a suitcase and can be inflated and deflated using a hand pump in a matter of minutes. We've included loads of attachment points inside so you can tailor the experience with all your favourite sensory toys and equipment.





Give us a call

So that's us! All of our designs are in response to direct requests from parents and carers who are struggling to find the piece of equipment that would make their child's life easier, more inclusive and more fun. These are made free of charge for families. So if you would like to challenge the team to find a solution to your problem please get in touch with us. Or if you would like to get involved and support Cerebra's work in any way we would love to hear from you.



Get in touch and lets discover a better life together!

www.cerebra.org.uk

Cerebra

01267 244200
info@cerebra.org.uk

Second Floor Offices, The Lyric Building,
Kings Street , Carmarthen , SA31 1BD

Cerebra Innovation Centre

01792 483 688
cic@cerebra.org.uk

Alex Design Exchange, Alexander Road,
Swansea, SA1 5DU

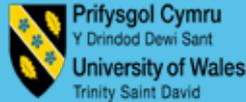


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Postal Address

Cerebra
2nd Floor Offices
Lyric Building
King Street
Carmarthen
SA31 1BD

www.cerebra.org.uk



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