



HIGH-TECH, NATURALLY

SolidWorks for Makers lets Kate Reed's biomimetic designs come to life

Kate Reed (biomimetic.io) is somewhat of a sorceress, weaving technology and nature together into stunning apparel-based creations.

From wearable vertebrae to fungus-infused fanciness, she even works some modern computing into her spells.

Reed's pieces are outstanding displays both in the final result, and in their creation. "Once I understand the logic of how things grow in the natural world, I can translate that to computational space through CAD design tools like SOLIDWORKS, xShape, and xDesign."

Reed says that the inspiration for her work comes from the biological and technological world around us. Her vertebrae project, currently underway, exemplifies that: "Each vertebrae has a different electronic component — be it a heart rate sensor, or a speaker, or a gyroscope, and throughout the day the wearer can switch out vertebrae modules to make a hyper-customized wearable."

Anyone that's ever tried creating organic or biomimetic shapes by hand likely has a good idea of how quickly the task can become overwhelming. Reed has found the solution for her needs in her software. "As an artist, my dreams outgrew the physical capabilities of my body very quickly, so I turned to technology to help close the gap," she says. "I started working with CAD tools and my mindset shifted from designing products to designing processes, which completely changed my perspective."

"I found a balance in my practice between craft and computation that allows me to create out-of-this-world designs, which is all happening on the **3DEXPERIENCE** platform."

3DEXPERIENCE SOLIDWORKS for Makers is now available for anyone doing personal, non-commercial projects. For just US \$99/year or US \$9.99/month you'll get the same intuitive cloud-connected CAD modeling tools that the professionals use, along with:

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