

## Revolutionising Art with Haptic Technology and Freeform+

### At a glance

NAME: RAYVENN SHALEIGHA D'CLARK

PROFESSION: DIGITAL SCULPTOR

RECOGNITIONS: FORBES 30 UNDER 30 EUROPE 2024 (ART AND CULTURE)

### Overview

**Rayvenn Shaleigha D'Clark** is a London-based digital sculptor who has made significant waves in the art world, earning a place on **Forbes 30 Under 30 Europe 2024** (Art and Culture).

With her work exhibited alongside icons like Tracey Emin, Ai Weiwei and Banksy, Rayvenn has gained international acclaim. Her art is housed in prestigious institutions such as the Victoria & Albert Museum, Saatchi Gallery, and Carl Freedman Gallery. In March 2024, she unveiled her largest project to date, **"Black Renaissance,"** a permanent installation in Montgomery, Alabama, marking her as one of the most innovative voices in contemporary sculpture.

### Challenge

Public monuments often lacked diverse representation, reflecting a broader issue within the art world. Rayvenn also faced systemic challenges, including difficulties securing funding and pushing back against reductive portrayals in visual culture.

Another obstacle was translating her vision of intricate, authentic representations into physical form while working within the limitations of traditional sculpting techniques. To fully realise her artistic ambitions, she needed tools that would allow her to push creative boundaries while preserving the precision and craftsmanship essential to her practice.



*Geomagic Freeform and 3D Systems have revolutionised my creative practice, enabling me to develop unique, highly customisable artworks for a wide range of applications.*



[www.or3d.co.uk](http://www.or3d.co.uk)



3 Cedar Court, Brynkinalt Business Centre Estate, Chirk, Wrexham, LL14 5NS





## Solution



Determined to overcome these barriers, Rayvenn took bold steps to enhance her creative process. She invested in a **Haptic Touch** and **Freeform+** software from **OR3D** to allow her to push the boundaries of her artistry. To ensure she could fully harness the potential of these technologies, she sought training from **OR3D**, whose expertise provided her with the skills needed to seamlessly integrate digital tools with her traditional sculpting practice.

The **Haptic Touch** enabled Rayvenn to experience tactile feedback that mimicked working with clay, allowing her to craft intricate, lifelike details with the precision and control she needed. Meanwhile, **Freeform+ software** gave her the capability to design and refine complex sculptures digitally, allowing her to take on ambitious projects that would have been difficult to execute using traditional methods alone.

Through a combination of her own determination and training provided by **OR3D**, Rayvenn gained not only the technical skills to master these tools but also the confidence to tackle large-scale projects. Her vision and drive were key to breaking through the barriers she faced, while the technology served as a means to bring her ideas to life with unparalleled detail and authenticity.



## Results



Rayvenn has achieved remarkable success. Her most notable project, "Black Renaissance", features three monumental bronze sculptures in Montgomery, Alabama, commemorating hidden figures and addressing the legacy of slavery. This historic installation is projected to draw over two million visitors annually, cementing Rayvenn's place as a trailblazer in public art.

In addition to this monumental achievement, Rayvenn secured nearly two million pounds in funding within the first 10 months of opening her studio, enabling her to create additional permanent installations in both the UK and US. Her innovative use of the **Haptic Touch** and **Freeform+ software** has allowed her to challenge stereotypes, celebrate underrepresented communities and craft works that are as bold and impactful as her vision.

Rayvenn's journey is a testament to the power of resilience and innovation. By overcoming challenges and embracing advanced technology with the support of **OR3D**, Rayvenn has not only redefined what is possible in contemporary sculpture but also inspired others to break through barriers and pursue their creative ambitions fearlessly.



*"The Haptic device's unparalleled tactile feedback, combined with the advanced capabilities of the Freeform software, provides a true 360-degree digital sculpting experience. This technology seamlessly bridges traditional handmade techniques with the possibilities of a fully digital workflow."*

Rayvenn Shaleigha D'Clark, MA, FHEA, MRSS, Digital Sculptor.

