

# ABSTRACT

## Innovative Mountmaking with 3D Scanning and Digital Fabrication

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*Leerform, Brooklyn, NY. USA*

**Doug Young**

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In the spirit of advancing the field of mountmaking Leerform has begun to utilize 3D scanning technology to digitize objects for the purpose of designing and fabricating mounts both large and small scale. We utilize strip pattern scanning, a type of light projection, to capture high resolution details and dimensional accuracy.

Many traditional mountmaking challenges can be overcome with 3D scanning, an efficient and safe process that allows for less handling of an object. Scanning can be coupled with 3D printing, or CNC cutting, to simplify complex mounts.

Included in our short talk will be three case studies two of which are complimented with short videos documenting the process.

- The first case study is focusing on creating a mount for a 4000 lb. quartz crystal utilizing digital fabrication techniques including 3D scanning, 3D modeling, and CNC cutting.
- The second case study involves fabricating a dress mount for travel to an exhibition. With this object the challenge was creating the correct dress form for the unique dress silhouette.
- The third object we look at is a Meji vase that had recently been restored. The challenge here was the object's fragile paper surface could not be handled in traditional ways. For this object we scanned the lower portion and created a 3D printed replica that we then fabricated the mount to it.

# BIO

## **Rene Gortat**

Rene Gortat is the Production Manager and co-owner of Leerform, a design and fabrication studio in Brooklyn. He is responsible for figuring out how to get things done. With a creative and elegant approach to problem solving, he turns ideas into a tangible reality.

From TIG welding and 3D modeling, to sewing and painting, he applies his 10 years of hands-on experience to facilitate the creation and protection of artwork.



# BIO

## Doug Young

Doug Young has been in the fine art services field for over 25 years and has worked with most national art institutions. He is a logistics and project management master, from multi-venue exhibitions to small batch prototyping. He's not too shabby with a hammer and nail either.

Most recently Doug brought to life a replica of the 1953 Mathias Goeritz sculpture El Serpiente de El Eco For the Noguchi Museum

