

Education

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| 2015 | MFA , William Paterson University of NJ Concentration in processes involving 3D fabrication under the mentorship of Michael Rees Dean's Award May 2016 | Wayne, NJ |
| 2010 | BA , Rutgers, The State University of NJ Majors: Art, History | New Brunswick, NJ |

Solo Exhibition

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| 2015 | <i>Monuments to Compromise</i> , Power Art Gallery, | Wayne, NJ |
| 2014 | <i>The 3D Printed Gun Show</i> , Power Art Gallery, | Wayne, NJ |

Selected Group Exhibition

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| 2017 | <i>Zeitgeist</i> , Converge Gallery | Williamsport, PA |
| 2015 | <i>Pawn Tattoo</i> , Lynch Tham Gallery | New York, NY |
| 2015 | <i>The Transposed Tactile</i> , Power Art Center, | Wayne, NJ (international) |
| 2015 | <i>CNA Pop-Up Greater Newark Maker Faire</i> , Newark Museum | Newark, NJ |
| 2015 | <i>Dim Sum</i> , Power Art Gallery | Wayne, NJ |
| 2014 | <i>Hands Up, Don't Shoot: Artists Respond</i> , Ferguson Pub.Lib. | Ferguson, MO |
| 2014 | <i>Material Matters</i> , Power Art Gallery | Wayne, NJ |
| 2014 | <i>Grawlixes</i> , Power Art Gallery | Wayne, NJ |
| 2013 | <i>NP Artist Studios Open Studio Tour</i> , NP Artist Studios | Passaic, NJ |
| 2013 | <i>Digital Stone Project Exhibition</i> , Fortezza di Montalfanso | Castelnuovo di Garfagnana, Italy |
| 2013 | <i>Paterson Art Walk</i> , Satellite Exhibit at NP Artist Studios | Prospect Park, NJ |
| 2012 | <i>Material Matters</i> , Power Art Gallery | Wayne, NJ |
| 2012 | <i>Slippers and Zippers</i> , Power Art Gallery | Wayne, NJ |
| 2012 | <i>NP Artist Studios Open Studio Tour</i> , NP Artist Studios | Passaic, NJ |
| 2012 | <i>Paterson Art Walk</i> , Satellite Exhibition at NP Artist Studios | Prospect Park, NJ |
| 2011 | <i>NP Artist Studios Open Studio Tour</i> , NP Artist Studios | Passaic, NJ |
| 2011 | <i>Paterson Art Walk</i> , Satellite Exhibit at NP Artist Studios | Prospect Park, NJ |
| 2009 | <i>Mason Gross Annual Art Open</i> , Mason Gross Galleries | New Brunswick, NJ |

Collections

Hamilton Club (Paterson, NJ)

Private Collections

Residency

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| 2013 | <u>"Ricardo Galleni Memorial Grant" Workshop with Digital Stone Project, Autodesk, & Garfagnana Innovazione, Italy, garfagnanainnovazione.it/</u> |
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Press

-3D Printing Industry. **Power, Guns, and 3D Printing: Artist Brian Sandilands' 3D Printed Gun Show**. 2015. Web. <http://3dprintingindustry.com/2015/06/11/power-guns-and-3d-printing-artist-brian-sandilands-3d-printed-gun-show/>

-William Paterson University of NJ. **Alumni Use 3D Sculpting to Jumpstart Careers**. 2016. Print.

-William Paterson University of NJ. **William Paterson Art Professor Michael Rees And Students Spent Month In Italy And Used High-Tech Robots To Carve Sculptures**. 2013. Print.

Lectures

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| 2016 | "Digitizing Passaic County History; 3D Models as Artifacts" at Lambert Castle |
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Core Experience

- 2015-Present **CNC Production Manager at Marmiro Stones, LLC, NJ, marmiro.com**
- 2D and 3D CAD/CAM file Management
 - Management of CNC Production (3 Axis CNC Stone/Glass Machine, waterjet)
 - Drone and Proliner Digital Templating Management
 - Inventory Control and Vendor Contact for software and hardware
 - Design/Product Development, Production Management of Custom Projects
 - CAD/CAM Project Intake and Work Order Processing
- 2015 **7 Axis Robot Training at Programming Plus, WI, programmingplus.com**
- PowerMill software by Delcam. 7 Axis Kuka. PRI macro by Robotic Solutions.
- 2012-2015 **Graduate Assistant at William Paterson University of NJ**
- Teaching Assistant*
- Prepare lesson plans for college classes; teach workshops related to expertise in CAD/CAM.
- Machinery Management & Maintenance*
- Routine machine maintenance; diagnose and troubleshoot machines; Training and scheduling of machine operations; contact person with software/hardware companies.
- 3d Manufacturing Technician and Programmer*
- Advise and supervise students, faculty, and visiting artists with projects that require CNC milling, 3D Printing, Laser cutting/engraving, etc.
- Gallery/Exhibition coordinator*
- Organize and curate shows, social media, construct installations, film lectures, outreach efforts.
- Research*
- Develop "best practice" workflows for machines and software. Practice technological advocacy by researching software, machines, etc. to advise Center for New Art.
- 2014 **Internship at The Digital Atelier, NJ, digitalatelier.net**
- Post- and Pre-Process Fabrication. DSM 5-Axis CNC Machines. 3D Scanning.
 - Introductions to Rhinoceros, PowerMill and PowerShape by Delcam.
- ### 3D Fabrication & Artist Assistant for Projects
- 2013-2015 **Artist in Residency (AIR) Program at Center for New Art, NJ**
- Consultation, technical and logistical assistance for large scale projects produced.
<http://www.wpunj.edu/coac/departments/art/center-for-new-art/>
- 2015 **Fabian Marcaccio, NY & NJ, paintantscorporation.com**
- Managing digital files of artist to program CNC milled, larger scale reproductions.
- 2014-15 **Outsourced Fabricator for Poly Molding, NJ, polymoldingllc.com**
- Produced prototype. Consultation for future manufacturing strategies of product.
- 2014 **Alan Lazarus, NJ, lazaruswilliamson.com**
- Designing, machining, and prototyping basket-weave panels.
 - Prototyped New Aesthetic abstractions of form.
- 2013-14 **Michael Rees, NY & NJ, michaelrees.org**
- Assisted with installation of "Converge: Ghraib Bag" at Museum of Arts and Design.
 - Fabricated 2 sculptures of Michael Rees' collaboration with Robert Gero.
- 2013 **Elaine Lorenz, NJ, elainelorenz.com**
- 3D scanning solutions. File repair and management. 3D fabrication.
- 2012 **Assistant at Dumbo Iron Pour, NY**

Institutional, Educational, and Other

- 2014-Present **Independent Research Project: “Digitizing Passaic County History”
Partnered with Hamilton Club and Lambert Castle Museum, Paterson, NJ**
- 3D scanning, modeling, and fabrication of the Gaetano Federici Collection.
- 2014 **Manager for “STEM to STEAM” 3D Printing and Scanning Workshop, NJ**
- Managed workshop for Eastside High School in Paterson.
- 3D scanning, 3D modeling, 3D printing, and CNC milling education.
- 2010 -Present **Volunteer at Botto House, The American Labor Museum, NJ**
- Tour guide. Local and labor history. Historical reenactments.
- 2011 **Reclassification Technician at Caldwell College, NJ**
- 2008 -Present **Alternative Music and Art Event Curator, NJ**

Technical Experience

Machines

- **3 axis CNC Mill** (extensive experience operating, specialize in flip milling)
- **5 Axis CNC, 7 axis Robot** (preparation of 3D models for, programming, setting)
- **3D Printer/AM** (proprietary & open-source FDM, UV curable & DLP)
- **3D Scanning** (Konika Minolta, 3D Sense, Romer Cimcore articulating arm)
- **Laser Cutter** (CO2)
- **Waterjet**
- **Hot Wire CNC** (Hot Wire Direct and custom 20 axis w/ turntable)
- **Digital active/contact measure/template/survey system** (*Proliner* by Prodim)
- **Large Format Printer, Plotter**
- **Stone CNC Machines**, Diamond Tooling
- **Drone** (DJI Phantom)

3D CAD Software

- Cinema 4d
- Rhinoceros
- Autodesk 3D products
- ZBrush, Sculpttris
- Netfabb, PowerShape
- Sketchup
- Polygon Editing Tool

3D CAM Software & Machine Control

- Mecsoft VisualMill & Other CAD/CAM
- PowerMill, Taglio Suite, MasterCAM, etc.
- Cura, Simplify 3D, Repetier Host, MakerBot, etc.
- Various Process Controllers
- Laser Cutter, Water Jet software
- G/M Code

Other Software

- Adobe Photoshop, Illustrator
- Google Earth
- Microsoft Office
- Wordpress and Various Social Media

Traditional and Fine Art

- Basic Foundry, Electrical, Wood shop, Metal shop, & Welding (ARC, MIG)
- Representational Modeling, Stone Carving, Armature Construction
- Mold Making (designing mold for material and reproduction requirements)
- Post-Processing (chasing, finishing, polishing, painting systems, surface treatment, etc.)
- Printmaking (monoprint methods, Linoleum cut, silk screen, stencil-making, etc.)

Foreign Languages

Italian (intermediate), Spanish (elementary)