Brian Sandilands, MFA

Education

MFA, William Paterson University of NJ, (2012-2015), Wayne, NJ
Concentration in computationally derived digital fabrication + production under the mentorship of Michael Rees
Graduate Assistant Scholarship
Dean's Award May 2016

BA, Rutgers, The State University of NJ, (2005-2010) New Bruswick, NJ
Majors: Art, History

Solo Exhibition

2015   ***Monuments to Compromise***, Power Art Gallery, Wayne, NJ

2014   ***The 3D Printed Gun Show***, Power Art Gallery, Wayne, NJ

Selected Group Exhibition

Year	Exhibition	Location
2019	*Inaugural Exhibition*, Clarksville Gallery	West Nyack, NY
2017	*Special Event*, Index Art Center	Newark, NJ
2017	*Zeitgeist*, Converge Gallery	Williamsport, PA
2015	*Pawn Tattoo*, Lynch Tham Gallery	New York, NY
2015	*The Transposed Tactile*, Power Art Center,	Wayne, NJ (international)
2015	*CNA Pop-Up Greater Newark Maker Faire,* Newark Museum	Newark, NJ
2015	*Dim Sum*, Power Art Gallery	Wayne, NJ
2014	*Hands Up, Don't Shoot: Artists Respond*, Ferguson Pub.Lib.	Ferguson, MO
2014	*Material Matters*, Power Art Gallery	Wayne, NJ
2014	*Grawlixes*, Power Art Gallery	Wayne, NJ
2013	*NP Artist Studios Open Studio Tour*, NP Artist Studios	Passaic, NJ
2013	*Digital Stone Project Exhibition*, Fortezza di Montalfanso	Castelnuovo di Garfagnana, Italy
2013	*Paterson Art Walk*, Satellite Exhibit at NP Artist Studios	Paterson, NJ
2012	*Material Matters*, Power Art Gallery	Wayne, NJ
2012	*Slippers and Zippers*, Power Art Gallery	Wayne, NJ
2012	*NP Artist Studios Open Studio Tour*, NP Artist Studios	Passaic, NJ
2012	*Paterson Art Walk*, Satellite Exhibition at NP Artist Studios	Paterson, NJ
2011	*NP Artist Studios Open Studio Tour*, NP Artist Studios	Passaic, NJ
2011	*Paterson Art Walk*, Satellite Exhibit at NP Artist Studios	Prospect Park, NJ
2009	*Mason Gross Annual Art Open*, Mason Gross Galleries	New Brunswick, NJ

Collections

Hamilton Club (Paterson, NJ) , Private Collections

Residency & Workshop

2019   "Art-A-Hack 2018 Special Edition" at Thoughtworks. AR & VR Proof of Concept Project, 'Another World'.
New York, New York

2013   "Ricardo Galleni Memorial Grant" Workshop (Digital Stone Project, Autodesk,Garfagnana Innovazione)
Gramolazzo, Italy. garfagnanainnovazione.it/ . https://www.digitalstoneproject.com/residency

2021   Residency at Gardenship Arts (Associated/Resident Artist & Program Facilitator 2020-Present)
Kearny, NJ https://www.gardenship.art/

Press

-3D Printing Industry. ***Power, Guns, and 3D Printing: Artist Brian Sandilands' 3D Printed Gun Show***. 2015. Web.

-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

Core Experience

2019-   **3D CNC Specialist - Showman Fabricators** (NJ) showfab.com

-Manage operations and development of CNC sculpture carving department

2018-2019   **Night Shift Operations Manager - Showman Fabricators** (NJ) showfab.com
-Manage CNC production, CAD/CAM, and material handling of 2nd shift/overnight operations.
-Execute machine maintenance, tech services, and design workflows of CNC sculpture operations.

2015-2018   **CNC Production Manager - 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 - 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.

Digital Fabrication Technician and Programmer
-Supervise students, faculty, visiting artists with projects that require CNC, 3D Printing, Laser cutting, 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 - The Digital Atelier** (NJ) digitalatelier.net

- Post- and Pre-Process Fabrication. DSM 5-Axis CNC Machines. 3D Scanning.
- Introduction to Rhinoceros, PowerMill and PowerShape by Delcam.

Select Freelance Custom Fabrication, Project Management, & Special Project Contributions

2018   **Restoration of Mary Miss Public Monument w/ Harry Gordon Studio for Rutgers Univ.** (NJ)
-Digitization of Monument, CAD/CAM, Project mgmt. of stone & metal medallion (design-fabrication-install)

2015   **R&D for Vik Muniz Sculptures w/ Michael Rees** (NJ)
-CAD/CAM/CNC prototyping

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** (NJ, NY) paintantscorporation.com
-CAD/CAM, CNC machining relief sculptures, file management

2014-15   **Outsourced Fabricator for Poly Molding** (NJ) polymoldingllc.com
- Prototyping, Consultation

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, CAD/CAM/CNC, engineering and project management

| 2012 | **Assistant at Dumbo Iron Pour** (NY) |

Institutional, Educational, and Other

| 2019- | **Passaic River CAG, Board Member** (NJ) |

-Represent community in dialog with EPA, ACE, etc. in efforts to remediate the Passaic River.

| 2014-2016 | **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.

| 2010-2014 | **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 -2015 | **Alternative Music and Art Event Curator** (NJ) |

Technical Experience

Machines

- **3+ Axis CNC Mill** (extensive experience, specialize in flip milling + custom projects)
- **5 Axis CNC, 7 axis Robot** (preparation of 3D models for, programming, etc.)
- **3D Printer/AM** (proprietary & open-source FDM, UV curable & DLP)
- **3D Scanning** (Konika Minolta, 3D Sense, Romer Cimcore articulating arm, etc.)
- **Laser Cutter (CO2)** (small format + industrial scale 2.5 axis w/ rotary attachments, 5 axis tube laser)
- **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**, (Sculpture, Hardscapes, Interior products, Mosaics, Diamond Tooling, etc)
- **Drone** (DJI Phantom)

3D CAD Software

- Cinema 4d
- Rhinoceros
- Autodesk 3D products
- ZBrush, Sculptris (Voxel based)
- Netfabb, PowerShape
- Sketchup
- PET and 3D Scan software

3D CAM Software & Machine Control

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

Other Software

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

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)