

Experience



Lecturer, School for Environment and Sustainability

January 2023 - Present

University of Michigan - Ann Arbor, Michigan

- Teach graduate-level digital design modeling to future landscape architects, architects, planners, and engineers.

SMITHGROUP

Design, Associate

January 2014 - Present

SmithGroup - Ann Arbor, Michigan

- Project management of multidisciplinary teams, design, development and oversight throughout all project phases, including production and construction administration through implementation.
- Continuous business development including pursuits, proposals, scopes-of-work, fee calcs, and scheduling.
- SG UAV Pilot, SG Computation, and SG Tech Resource Group.



C.T. Male Associates
Engineering, Surveying, Architecture & Landscape Architecture P.C.

Land Development

June 2013 - January 2014

CT Male Associates - Albany, New York

- Extensive grading and surface modeling, layouts, and details in Civil3D.
- Comprehensive native planting design and regulatory stormwater management strategies.



Design

June 2012 - June 2013

Saratoga Associates - Saratoga Springs, New York

- Prepared project deliverables through schematic design, design development, and construction documentation.
- Design layouts, 3D modeling, diagrams, and analytics (cost estimates, performance metrics, and specs) completed with Adobe Creative Suite, Revit, AutoCAD, SketchUp, ArcGIS, MS Office, and hand graphics.



Planning

September 2011 - May 2012

Downtown Development Authority - Grand Rapids, Michigan

- Coordinated three "Action Groups" of community stakeholders to administrate >\$30M in TIF. Prep and review of RFP's.



Intern

June 2010 - August 2010

Saratoga Associates - New York, New York

- Produced playground plans and charrette materials for PlaNYC in Manhattan - an initiative to redevelop blighted playgrounds across the city.



Landscape Design

September 2006 - August 2008

Old Mission Associates - Traverse City, Michigan

- Designed approx. 20 residential and commercial landscapes between northern Michigan and Chicago.
- Crew Foreman and oversight during installation of completed designs, often operating heavy equipment and tools.

Credentials & Professional Background



Registered Landscape Architect

New York #002582



Remote Pilot - sUAS (Drone/UAV)

FAA Part 107 Commercial Operator



ASLA & MiASLA Member

ID: 177062



LARE Exam Writing Committee

Sections 2 & 3



LEED® Green Associate

#10462908

Highlighted Built / Completed Works

⌘ Dennis Archer Greenway (Jos Campau)
Detroit, Michigan

⌘ Kercheval Streetscape
Detroit, Michigan

⌘ 15th Street Streetscape
Detroit, Michigan

⌘ Huron Streetscape
Ann Arbor, Michigan

⌘ Riverside Park
Detroit, Michigan

⌘ MSU Grand Rapids Research Center
Grand Rapids, Michigan

⌘ Grand Parklet
Detroit, Michigan

⌘ Amsterdam Pedestrian Bridge
Amsterdam, New York

⌘ Selden Courtyard
Detroit, Michigan

⌘ First National Building Alley
Detroit, Michigan

⌘ 1001 Woodward Plaza
Detroit, Michigan

⌘ MSU Basketball Championship Recognition Walls
East Lansing, Michigan

⌘ Treeline: Allen Creek Urban Trail Master Plan
Ann Arbor, Michigan

⌘ U-M Ross School of Business, Phase 2
Ann Arbor, Michigan

⌘ Midtown Loop Greenway
Detroit, Michigan

⌘ Global Foundries, Fab 8
Albany, New York

⌘ Traverse City Public Pier
Traverse City, Michigan

Academic Background



Master of Architecture Program Candidate

May 2013 - July 2013

Rensselaer Polytechnic Institute - Troy, New York

- Partial completion 12-credit Summer Session - Merit Scholarship.
- Intensive modeling in Rhino + Grasshopper, graphic composition in Adobe Creative Suite.



BALL STATE UNIVERSITY

Master of Landscape Architecture

2011

Ball State University - Muncie, Indiana

- 2011 INASLA Student Design Award for project addressing sustainable / renewable energy-harvesting infrastructure.
- Summer 2009 competitive Study Abroad in Monterrey, Mexico.
- Graduate Assistant: taught SketchUp + Adobe CS workshops, graphic design services, gallery exhibits.



Architecture - Study Abroad

May 2009 - July 2009

Tecnológico de Monterrey - Monterrey, Nuevo León, Mexico

- Built sustainable housing from repurposed materials in Almaguer, an informal mountainside community of 20,000 people, under the guidance of Architect Dr. Pedro Pacheco [Design Like You Give A Damn, 2011].
- Designed 4.5-acre park as part of the Almaguer community master plan - the park was built in 2011 through municipal, academic, and community partnerships.



Bachelor's in the Science of Horticulture

2007

Michigan State University - East Lansing, Michigan

- Lab-based coursework in greenhouses + field. Focus on plant: design, physiology, propagation, ecological systems, soil sciences, hydrology, and commercial production.
- Student Organic Farm Volunteer: 10-acre organic farm, 1-acre permaculture plot + 10,000sf passive solar greenhouses.
- MSU Men's Club Soccer Team on scholarship + graduated Dean's List.

Software Proficiency



AutoCAD Civil3D 2023
Layouts, surfaces, details & documentation etc.



Revit 2023
Urban design, SD-CD, visualizations & documentation



Rhino 7
Context modeling, 3D geometry & meshes



Lumion 12
Powerful 3D model rendering engine & visualizations



Pix4D - [also ReCap + DJI Terra]
UAV & point cloud photogrammetry



SketchUp Pro
Rapid 3D models & visualizations



Dynamo
Computational modeling + design in Revit & Civil3D



Grasshopper
Computational modeling + design in Rhino



ArcGIS Pro 3.0
Mapping, suitability analyses, DEM's, orthos, georeferencing



Microsoft
Extensive Excel, Powerpoint, Word, Outlook, Teams



Adobe Photoshop CC
Renderings, photocollages, and general raster edits



Adobe Illustrator CC
Complex diagrams + compositions



Adobe InDesign CC
Reports, proposals, and multi-page documents



Adobe Creative Cloud [CC]
Additional Software: Dreamweaver, Premiere Pro




References

UPON REQUEST

Presentations

-  **Thermoscope Toolkit: Visualizing Thermal Disparities.** Presentation for the **2023 ASLA National Conference, Game Changers.** October 2023.
-  **Riverside Park Detroit: Transforming Park, Transforming Lives.** Presentation for the **2023 ASLA National Conference.** October 2023.
-  **The Weather Channel: Drones Map Urban Heat Islands.** Multinational news segment by **The Weather Channel.** September 2023.
-  **CNN: Drones help uncover why our cities are so hot.** Multinational news segment by **CNN.** August 2023.
-  **How Drones Inform Land Cover Decision-Making as a Mitigation Strategy.** Presentation for the **2022 Michigan ASLA Annual Conference.** September 2022.
-  **Combating Heat Island Effect with Green Infrastructure.** Presentation for the **Green Infrastructure Summit** and the **NYASLA, APWA, and AIA WNY.** May 2022.
-  **Combating the Heat Island Effect with UAV Thermal Imaging.** Presentation for the **American Society of Landscape Architects (ASLA).** August 2021.
- Combating the Heat Island Effect with UAV Thermal Imaging.** Presentation for the **2021 Great Lakes Climate Action Seminar** and the **MiASLA, NYASLA, OHASLA, and WIASLA.** June 2021.
-  **BIM Roundtable with SmithGroup and EDSA.** Presentation for the **American Society of Landscape Architects (ASLA).** April 2021.
- Navigating Options in a Tech-Centric World.** Presentation and panelist discussion for the **2019 Michigan ASLA Annual Conference.** Northville, Michigan, October 2019.
- Detroit's New Skate Park: A Brownfield Transformed.** Presentation for the **2019 USGBC Sustainable Detroit Forum.** Detroit, Michigan, October 2019.
- High-Five Detroit: The Path Forward.** Presentation for the **2018 USGBC Sustainable Detroit Forum.** Detroit, Michigan, October 2018.
- Revit for Site.** Presentation for the **2017 AIA Detroit Conference.** Detroit, Michigan, September 2017.

Research & Teaching

-  **LAF Deb Mitchell Research Grant: "Heat Waves: Visualizing Thermal Disparities."** Annual competitive grant awarded to support research projects that are relevant and impactful for the professional practice of landscape architecture, **Landscape Architecture Foundation (LAF),** June 2023, active appointment.
-  **EAS585, Lecturer.** Design modeling and CAD-based multidisciplinary digital workflows, **University of Michigan,** Ann Arbor, Michigan, January 2023, active appointment.
- LARC 311 Studio IV: Cultural and Ecological Systems, Lecture.** Studio presentation and discussion of UAV heat island research, "Heat Waves," **University of Nebraska,** Omaha, Nebraska, February 2023.
- LAND7072: Visualization II, Lecture.** Studio presentation and discussion of UAV heat island research, **University of Cincinnati,** Cincinnati, Ohio, February 2022.
- MiASLA SITES, Publication.** "Combating the Urban Heat Island Effect with UAV Thermal Imaging." Volume 14, Number 1, 2020.
- LA 414: Site Engineering, Lecture.** Studio presentation and discussion of BIM and technology in practice, **Ball State University.** Muncie, Indiana, October 2020.
- LA 414: Site Engineering, Lecture.** Studio presentation and discussion of completed professional projects, **Ball State University.** Muncie, Indiana, October 2019.
-  **Exploration Grant, Combating the Urban Heat Island Effect with UAV Thermal Imaging.** Private organization-wide competition to leverage interdisciplinary research initiatives, **SmithGroup.** May 2019.
- EAS 687: Landscape Planning & Analysis, Critique.** Final critique of MLA studio capstone projects, **University of Michigan.** Ann Arbor, Michigan, May 2019.
- LA 414: Site Engineering, Lecture.** Studio presentation and discussion of completed professional projects, **Ball State University.** Muncie, Indiana, October 2018.
- LA 414: Site Engineering, Lecture.** Studio presentation and discussion of completed professional projects, **Ball State University.** Muncie, Indiana, October 2017.
- SketchUp for LA's.** College of Architecture and Planning SketchUp workshop for rapid 3D-modeling, **Ball State University.** Muncie, Indiana, March 2011.
- Art Instructor.** Head Ceramics and General Art Instructor, **Interlochen Pathfinder Summer Arts Camp.** Interlochen and Traverse City, Michigan, 2002-2005.

Awards

- Midtown New Center Dog Park, Detroit.** 2022 Michigan Green Industry Association Gold Award.
- Selden Courtyard, Detroit.** 2022 Michigan ASLA Merit Award.
- Traverse City Lower Boardman River Strategic Plan.** 2022 Michigan ASLA Merit Award.
- 1001 Woodward Public Space, Detroit.** 2018 Michigan ASLA Merit Award.
- Wind, Water, Sun, and Humanity: A Case-Study of Sustainable Infrastructure.** 2011 Indiana ASLA Student Design Award.