



**COURTNEY FINT ZIMMERMAN, P.E.**  
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*Curriculum vitae*

## Employment

**Owner/ Principal, Aurora Research Associates, LLC, Silver Lake, OH 2011 – Present**

Firm Profile: ARA is a historic preservation and environmental services consulting firm specializing in architectural history, National Register evaluations and nominations, preservation planning, building pathology and repair/restoration, Section 106, 4-f, and NEPA environmental review and education/advocacy. The company is a certified Ohio EDGE, Ohio and West Virginia DOT DBE, US Small Business Administration WOSB, and West Virginia Department of Administration small woman-owned business.

### *Project Highlights*

- **West Virginia Division of Highways Statewide On-Call Consultant for Cultural Resources, 2013-current**

Client: West Virginia Division of Highways

Prequalified consultant for cultural resource environmental services, including Section 106 and 4(f) review, memoranda of agreement, public involvement, mitigation, and NEPA clearance for highway and bridge projects throughout West Virginia. Projects completed under these agreements include U.S. 340 Historic Mitigation, Newburg Slab (Section 106), Bartley Bottom Bridge (Section 106), Clear Fork Arch No. 3 (Section 106 review and mitigation), Pickens Box Culvert (Section 106), Marsh Fork Bridge (Section 106), Stumptown Bridge (Section 106) and Shiloh Truss (Section 106, 4-f, CE).

- **Sunset Beach Road Widening, Monongalia Co., WV**
- **Summit Metro Parks Gorge Dam Historic Resource Survey, Akron, OH, 2018**

Client: Summit Metro Parks

Section 106 historic resource survey for removal of 1913 dam in the Cuyahoga River. The Park area with natural glacial rock features was formerly an amusement park in the 1890–1930s. Obtained OHPO concurrence with eligibility findings.

- **Uhler Avenue CSO Rack 27/29 Improvements, Akron, OH, 2017-2018**

Client: CT Consultants/City of Akron

Completed Ohio State Historic Preservation Office Section 106 Project Summary Form for Akron Waterways Renewed! sewer upgrade project, including OHPO I-form, mapping, and historical research.

- **West Virginia Great Barrel Company, Lewisburg, WV, 2018**

Client: Terradon Corp.

Performed historic resource survey for proposed barrel manufacturing facility, including research on adjacent CSX railroad and underpass, and viewshed analysis for National Register-listed property in the project vicinity.

- **S. Detroit Avenue Reconstruction, Toledo, OH, 2017.**

Client: TTL Associates, Inc.

Performed preliminary architectural field survey and completed Ohio DOT Section 106 Project Scoping Request Form. Project was cleared with No Effect on Historic Buildings.

- **West Virginia State University F. Ray Power Building Section 106 Review, Institute, WV, 2017.**

Client: Terradon Corp.

Performed field survey and determination of effect report for the renovation of 1975 office building adjacent to historic WV School for the Colored Deaf and Blind. Achieved SHPO concurrence on finding No Adverse Effect with no additional negotiation or correspondence required.

- **Ohio Department of Transportation Statewide Ecological Survey Services**

Client: EnviroScience, Inc.

As a subconsultant, provided fieldwork for endangered species surveys, preparation of associated technical reports, and QA/QC on environmental documents for various transportation projects throughout Ohio.

- **Shiloh Truss, Tyler County, WV, 2013-2015**

Client: EnviroScience, Inc., for WVDOH

Led cultural resource/Section 106 review for replacement of historic truss bridge. Completed Programmatic Section 4(f) and NEPA Categorical Exclusion documents. Drafted historical narrative for informational marker installed as mitigation for the bridge removal.

## Historic Resource Surveys/Historic Preservation

- **West Virginia State University Historic Resource Survey and National Register Nomination, Kanawha Co., WV, 2020-21**

- **West Pennsylvania Community Survey, Beaver County, 2020**

Client: ASC Group, Inc., Pennsylvania Historical and Museum Commission

Reconnaissance-level survey of 500 resources in Beaver County communities using the PAHMC Survey123 mobile app.

- **Sabraton Historic Resource Survey, Morgantown, WV, 2018**

Client: Morgantown Historic Landmarks Commission

Conducted a survey of 200+ resources in the Sabraton neighborhood using student volunteers from West Virginia University. Designed and presented training materials for student volunteers, managed projects, and completed and reviewed all WV HPI forms.

- **Charleston East End Historic District Survey Update, Charleston, WV, 2018**

Client: Charleston Historic Landmarks Commission

Conducted survey of 380+ historic resources in National Register-listed historic district to update incomplete and outdated information from 1975 listing/survey.

- **Reconnaissance Historic Resource Survey of Mason, Jackson, Pleasants, Lincoln, and Wayne Counties, WV, 2016-2017**  
Client: West Virginia State Historic Preservation Office  
Led a team of 3 in the field to survey 750 historic properties across five counties. Extensively preplanned survey routes/areas for maximum efficiency. Completed and reviewed all WV HPI forms. Authored final survey report and produced all GIS mapping.
- **Coal Heritage Survey Update, McDowell County, WV, 2016-2018**  
Client: West Virginia Division of Highways (Transportation Enhancement Grant)  
Planned and managed a survey of over 2,000 historic coal-related resources previously surveyed in 1991. Hired and led a team of 7 in the field. Coordinated completion and review of Historic Property Inventory forms and survey report.
- **Williamson House Determination of Eligibility, Kent, OH, 2018**  
Client: Kent State University  
Performed historical research and evaluation of National Register eligibility for the ca. 1855 Williamson House, the oldest structure on Kent State's main campus.
- **District 1 Headquarters Charleston Warehouse District Survey Update, Kanawha County, West Virginia (2016-2017)**  
Client: West Virginia Division of Highways  
As part of mitigation for the WVDOH District 1 Headquarters redevelopment, ARA resurveyed 110 resources in downtown Charleston and authored revised HPis. Prepared final surveyed report, including historical context, mapping, and eligibility recommendations.
- **Robinson Grand Theater Renovation Section 106 Review, Clarksburg, WV, 2014-16**  
Client: WYK Associates  
Coordinator of Section 106 review for historic theater restoration receiving USDA Rural Development funding, including historical research, report preparation, agency coordination, and public involvement.
- **West Virginia State Historic Preservation Grant Monitoring, 2015.**  
Client: WVSHPO.  
Field visited 20 historic preservation grant recipient sites throughout West Virginia to ensure continued maintenance and preservation under grant agreement terms.
- **Beverly, WV Architectural Survey and National Register Nomination Update, Randolph County, WV, 2013 -2014**  
Client: Beverly Historic Landmarks Commission  
Compiled and analyzed previous surveys of the Beverly Historic District; created all new Historic Property Inventory forms for 206 previously surveyed and additional properties; researched and prepared additional historical context and significance statement; wrote completely updated National Register Nomination document and boundary expansion amendment including new mapping and photography.

- **Thomas, WV Walking Tour, Tucker Co., WV, 2011-12**

Client: Tucker County Historic Landmark Commission

Researched and prepared content for self-guided walking tour brochure and website of 40+ resource historic district. Partner: Digital Relativity (web design/programming and graphic design)

## National Register of Historic Places Nominations

- **Buxton and Landstreet Company Store National Register Nomination, Tucker Co., WV, 2021**
- **West Virginia State University Faculty Houses**
- **O.M. Oviatt House National Register Nomination, 2019-2020**
- **West Virginia Schools for the Colored Deaf and Blind National Register Nomination, Kanawha Co., WV, 2020-21**

- **Brookside Historic District National Register Nomination, Preston County, WV, 2012**

Client: The Aurora Project, Inc.

Researched, wrote, and prepared all photos and supplemental materials for a ca. 1880 tourist resort with approximately 15 contributing resources

- **Valley View and Springfield Brick House National Register Nominations, Hampshire Co., WV, 2012**

Client: Hampshire County Historic Landmarks Commission

Researched, wrote, and prepared all nomination materials for two individual ca. 1855 Greek Revival houses.

- **Capon Lake Whipple Truss, Morgan County, and Winfield Toll Bridge, Putnam County, 2011**

Completed National Register nominations for the 1874 Whipple Truss, preserved as a pedestrian park in Morgan County, and the 1955 Winfield cantilever through truss that provided a major new transportation connection across the Kanawha River.

- **Camp Caesar Historic District National Register Nomination, Webster County, WV, 2009**

Prepared and authored National Register nomination for historic county 4-H camp (1922) containing 40+ contributing resources. Historic contexts for the camp included WPA/New Deal programs, the state and national 4-H movement, summer camp history, rustic architecture, and other aspects.

- **Jackson's Mill State 4-H Camp National Register Nomination, Lewis County, WV, 2004**

Prepared and authored National Register nomination for Jackson's Mill (1921), the first statewide 4-H camp in the nation, including 30+ contributing resources.

Architectural Historian/ Highway Engineer, West Virginia Division of Highways  
Environmental Section Charleston, WV 2005-2011

### *Project Highlights*

- **West Virginia Statewide Historic Bridge Survey, 2008-2011**

Partners: KCI Technologies, Mead and Hunt, RPM Engineering

Served as project manager for a statewide effort to survey 3000+ potentially historic bridges. Led coordination of review and eligibility negotiations with the WV State Historic Preservation Office and public involvement efforts. Prepared independent estimates and managed consultants and budgets.

- **U.S. Route 35 Upgrade, Mason County, WV, 2005-2011**

Performed NEPA re-evaluation of the Final Environmental Impact Statement for the multi-million-dollar upgrade of the regional highway. Completed Late-Find 4(f) analysis of a previously undocumented historic farm in the project area. Led mitigation negotiation meetings between project stakeholders, including the Federal Highway Administration, WVSHPO, WV Department of Agriculture, property owners, county government, local tourism board, architect, and others. As part of a team, crafted a mitigation plan to address adverse effects and oversaw the execution of stipulations.

- **Small Bridge Replacement Projects, West Virginia (statewide), 2005-2011**

Managed Section 106 Review, Section 4(f) Analysis, and NEPA coordination for over 40 small bridge replacement projects throughout West Virginia. Reviewed all WV Historic Property Inventory forms and reports produced by the Environmental Section. Performed field surveys for each project and completed over 300 HPI forms for bridges and surrounding structures over 50 years of age. Coordinated with the WVSHPO, public, local governments, and historical groups on research, eligibility determinations, and mitigation. Crafted Memoranda of Agreement and completed archival documentation for historic structures.

- **Market Street Bridge, Brooke County, WV, 2009**

Performed Section 106/ Section 4(f) review of the historic bridge rehabilitation project. Led coordination with WVSHPO and public involvement efforts to result in a finding of No Adverse Effect.

- **Comprehensive Mitigation Tool Kit, 2010**

Led cooperative effort with WVDOH Engineering and Planning Divisions and SHPO to create comprehensive mitigation tools for the removal of historic small bridges throughout the state. Wrote content for a sample public education poster about Historic Metal Trusses.

- **Mussel Survey Dive Team, 2009-2011**

Obtained open-water SCUBA certification and trained in freshwater mussel biology and survey techniques to assist WVDOH biologists with environmental studies. Performed several dive, snorkel, and wading mussel surveys across West Virginia.

- **History Day at the West Virginia State Capitol, 2006-2011**

Led WVDOH participation and public outreach at History Day during the state legislative session by designing and preparing displays about road history, West Virginia history, highway projects, transportation planning, and other topics. Met with several local history organization representatives and individuals from across the state.

- **Fourth Street Bridge, Fairmont, Marion County, WV, 2009-2011**

Managed complex bridge replacement project in National Register Historic District, including coordination between state and federal agencies, city government, local landmarks commission, SHPO, and other consulting parties. Reevaluated approximately 30 historic properties within the project area and surveyed ten additional properties. Completed Section 4(f) alternatives analysis and crafted public meeting handout and GIS mapping.

- **Pennsylvania Avenue, Weirton, Ohio County, WV, 2007-2009**

Surveyed and completed Historic Property Inventory forms on a team of three for over 75 properties for a two-phase road improvement project in a historic steel mill town. Evaluated National Register eligibility, prepared Section 106 Report, and completed Section 106/NEPA documentation.

- **Dunloup Creek Bridges, Fayette County, WV, 2008-2010**

Managed Section 106/4(f) compliance review for three small bridge replacements within New River Gorge National River. Coordinated with the National Park Service, FHWA, and county landmarks commission on documentation and mitigation. Prepared Memorandum of Agreement and completed NEPA Categorical Exclusion documentation package.

- **Shinnston Bridge, Harrison County, WV, 2007-2010**

Surveyed and evaluated 25 residential structures for the large bridge replacement project in the area. Coordinated with local government, the public, SHPO, and state and federal agencies for Section 106/4(f) review for removal of the historic bridge. Wrote Memorandum of Agreement and completed archival documentation for the bridge.

## Structural Engineer, Robert Silman Associates, Washington, DC

2005-2007

- Performed structural design in concrete, steel, and timber for a boutique preservation engineering firm. Participated in on-site structural condition assessments and prepared reports and repair recommendations for historic buildings. Assisted with the design of new structures, additions, and other structural elements for various buildings, including government landmarks, historic homes, barns, new residences, museums, and statuary.

### *Project Highlights*

- Woodlawn Plantation, Alexandria VA

Assisted with condition assessment and repair recommendations for the smokehouse building on the 1805 National Historic Landmark grounds.

- Arlington House, Arlington, VA

Assisted with condition assessment of the foundation of a historic 1803 mansion on the grounds of Arlington National Cemetery.

- Virginia State Capitol, Richmond, VA

Assisted with on-site field visits, condition assessments, and structural design calculations to restore the landmark state capitol originally designed by Thomas Jefferson.

- DC Court of Appeals, Washington, DC

Assisted with structural exploration, load calculations, and structural design calculations for a major restoration of the 1820 National Historic Landmark, including the complex construction of a parking garage and floor levels beneath the existing building.

Historian-in-Residence, WVU Jackson's Mill State 4-H Camp, Jackson's Mill, WV 2003

- Designed and conducted workshops, walking tours, and presentations on the history of Jackson's Mill for various user groups, including 4-H members ages 12-21, seniors, and other groups. Conducted condition assessments on 14 cottages and documented structural issues.

Intern, Vandalia Heritage Foundation, Fairmont, WV 2002

- Worked with preservation architect on condition assessments and restoration consultation for various historic buildings in West Virginia, including the Marion County Courthouse. Independently took field dimensions and produced measured drawings for nine structures by hand and using AutoCAD.

## Education

M.S. Historic Preservation, Columbia University, New York 2003

- Thesis: "Jackson's Mill State 4-H Camp: The Summer Camp as a Cultural Heritage Site."
- 2003 Winner of the Voorsanger Writing Prize for American Architectural History, sponsored by the Temple Hoyne Buell Center for the Study of American Architecture
- Teaching Assistant, Basic Principles of Traditional Construction" and "Investigative Techniques for Historic Structures"

B.S. Civil Engineering, West Virginia University, Morgantown 2001

- West Virginia University Presidential Scholar
- West Virginia University Honors Program
- Chi Epsilon and Tau Beta Pi National Engineering Honorary

## Continuing Education

(Course Title; Sponsor; Location; Dates)

- Leadership Akron/Women's Network Community Leadership Institute, Spring 2018.
- West Virginia Design and Construction Expo, Charleston, WV; 2011-2018.
- Ohio Transportation Engineering Conference, Columbus, OH; 2012-2018. Speaker, 2018.
- ODOT Categorical Exclusion Prequalification Training; ODOT Office of Environmental Services; Columbus, OH; September 2018.
- ODOT Section 4(f) & 6(f) Prequalification Training; ODOT Office of Environmental Services; Columbus, OH; April 2018.
- ODOT Section 106 Prequalification Training; ODOT Office of Environmental Services; Online; September 2019.
- Preserving the Historic Road 8<sup>th</sup> Biennial Conference, Indianapolis, IN; September 20-22, 2012 (presenter)
- National Trust for Historic Preservation Annual Conference; Buffalo, NY; October 19-22, 2011



- Cultural Resource Management Compliance for Non-Specialists; National Preservation Institute; Charleston, WV; July 18-19, 2011
- NEPA and the Transportation Decision Making Process; National Highway Institute; Charleston, WV; June 14-16, 2011
- STARS Workshop (Integrating Highway Planning and the Environment); Federal Highway Administration; Charleston, WV; April 26-27, 2011 (presenter)
- Freshwater Mollusk Conservation Society 7th Biennial Symposium; Louisville, KY; April 11-15, 2011
- Transportation Research Board 90th Annual Meeting; Washington, DC; January 23-27, 2011
- Freshwater Mollusk Conservation Society Regional Fauna Identification and Sampling Workshop; St. Louis, MO; October 19-21, 2010
- Seven Habits of Highly Effective People Signature Program; WVDOH; Charleston, WV, September 21-23, 2010
- Preserving the Historic Road 7th Biennial Conference; Washington, DC; September 9-12, 2010 (presenter)
- Public Involvement Techniques for Transportation Decision Making; National Highway Institute; Charleston, WV; July 27-29, 2010
- Freshwater Mussel Survey SCUBA Dive Training; WVDOH; Davis, WV; April 12-16, 2010
- Freshwater Mussels and Construction Projects in Rivers; WVDOH and WV Division of Natural Resources; Charleston, WV; February 2-4, 2010
- Transportation Research Board 89th Annual Meeting, Washington, DC, January 10-14, 2010
- FEMA Floodplain Regulation Training; WVDOH; Charleston, WV; January 22, 2009
- Advanced Seminar in Reaching Successful Outcomes in Section 106 Review; Advisory Council on Historic Preservation and Federal Highway Administration; Charleston, WV, 2009
- Identifying and Evaluation Resources of the Recent Past; Ohio Historical Society; Columbus, OH; September 27, 2007
- GIS: Practical Applications for Cultural Resource Project; National Preservation Institute; Lincoln, NE, May 10-11, 2007
- Beyond Compliance: Historic Preservation in Transportation Project Development; National Highway Institute; Charleston, WV; May 15-17, 2007
- Decision-making for Cultural and Natural Resources in a Legal Environment; National Preservation Institute; Washington, DC; April 24-25, 2007
- Section 106: How to Negotiate and Write Agreements; National Preservation Institute; Phoenix, AZ; March 28-30, 2007
- Geographic Information Systems Levels I-III; Rahall Appalachian Transportation Institute and WVDOT; Charleston, WV; 2006
- National Environmental Policy Act (NEPA) and Project Development; Federal Highway Administration Resource Center; Parkersburg, WV; June 14-16, 2006
- Section 106 Essentials; Advisory Council on Historic Preservation; Washington, DC; May 31-June 1, 2006
- National Trust for Historic Preservation Annual Conference; Pittsburgh, PA; 2006.



## Publications

“Historic Travel Guides as Research Sources.” Paper presented at the 8th Biennial Conference on Historic Roads. Indianapolis, IN, September 20-22, 2012.

“Innovative Mitigation in a Historic Agricultural Landscape: U.S. Highway 35 in Mason and Putnam Counties, WV.” Paper presented at the 7th Biennial Conference on Historic Roads. Washington, DC, September 9-12, 2010.

“West Virginia’s Historic Turnpikes: Research and Survey Methods.” Paper presented at the 6th Biennial Conference on Historic Roads. Albuquerque, NM, September 11-14, 2008.

“The American Summer Youth Camp as a Cultural Landscape.” In *Cultural Landscapes: Balancing Nature and Heritage in Preservation Practice*, edited by Richard Longstreth. Minneapolis: U. of Minnesota Press, 2008.

“Jackson’s Mill State 4-H Camp: The Rural Summer Camp as a Cultural Heritage Site.” *Future Anterior Journal of Historic Preservation History, Theory, and Criticism* 1 (Spring 2004): 38-46.

## Professional Licenses and Memberships

Licensed Professional Engineer, West Virginia, No. 17954

Licensed Professional Engineer, Ohio, No. 75861

Open Water Scuba Diver Certification, Scuba Diving International #352337