

Ronald E. Effland, PE, ACTAR, ADAC, LCI

President, Effland Consulting, LLC
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EDUCATION:

Southwest Baptist University, Bolivar, Mo. August 1985 to May 1987. Enrolled in Pre-Engineering Program coordinated with University of Missouri - Rolla.

University of Missouri - Rolla, Rolla, Mo. August 1987 to December 1989. Graduated with Bachelor of Science in Civil Engineering.

CERTIFICATIONS AND LICENSES:

Missouri EIT, EIT-35338-E, February 1, 1990.

Missouri Registered Professional Engineer, PE #27168, August 1, 1995

Traffic Accident Reconstructionist, ACTAR #1819 December 4, 2007

ADA Coordinators' Training Certification, University of Missouri School of Health Professions Disability Policy and Studies, September 3, 2013

League Cycling Instructor #4207, The League of American Bicyclists, November 8, 2013

Kansas Registered Professional Engineer, #27326, December 11, 2019

Effland Consulting, LLC

February 2019 to Present – President and Owner of Effland Consulting, LLC

Missouri Engineering Corporation License Number E-2019007020, February 27, 2019

Providing professional services in Civil Engineering, Accident Reconstruction and ADA Accessibility Partner with Missouri LTAP providing ADA training to Local Agencies, MoDOT and contractors, 2019- Present.

Missouri Department of Transportation – Job Experience

August 2011 through February 2019 – **Non-Motorized Transportation Engineer** – Design Division

- Coordinate the Department's non-motorized transportation program, focusing on bicycle and pedestrian issues and compliance with the Americans with Disabilities Act (ADA) requirements in transportation solutions.
- Maintain the MoDOT Transition Plan and Self-Evaluation Inventory, track progress towards TP completion.
- Serves as an expert witness in complaints or lawsuits dealing with ADA issues.
- Develops and conducts non-motorized and ADA related training for Department employees and design partners, including the MoLTAP program at Missouri S&T.
- Designs, maintains and applies non-motorized policies, specifications and standard plans according to current laws and identified best practices.
- Coordinates the MASH Guard Rail End Terminal Policy implementation.
- Collaborate to develop a national In-Service Performance Evaluation of guardrail end terminals pilot program with FHWA Mo, FHWA DC and NHTSA.
- Serves as an expert witness in complaints or lawsuits dealing with Roadside Safety issues.
- Reviews accident reports and provides testimony on behalf of the State in depositions, jury trials and arbitrations. Provide testimony on accident reconstruction issues like roadway geometrics, signing and striping layout, sight distance calculations, clear zone requirements, pavement friction and condition, and roadway safety topics.

- Administered AASHTO Route Marking of USBR 76, Trans-America Trail, May 2013.
- Coordinated USBR 76 Signing Contracts to post signs on the first USBR in Missouri, July 2013.
- Represents disabled populations on MoDOT Diversity and Inclusion Council, 2015 to 2018
- Administered AASHTO Route Marking of USBR 66, May 2018.

January 2003 to August 2011 - **District Design Engineer** – District 8 (Springfield)

- Supervises district design, utilities and surveying staff including making hiring and other employment-related decisions, assigning work, conducting performance management reviews
- Ensures the production of quality highway design plans are delivered within budget constraints
- Provides technical design expertise to district personnel; reviews conceptual, preliminary, right of way and final plans for accuracy and consistency with MoDOT Policy.
- Selects design consultants for district projects; manages a district consultant selection and processing program including tracking existing contracts and seeking consultants for other functional areas of the Department.
- Represents the district's design program to the media and in litigation on design issues.
- Reviews accident reports and provides testimony on behalf of the State in depositions, jury trials and arbitrations. Provide testimony on accident reconstruction issues like roadway geometrics, signing and striping layout, sight distance calculations, clear zone requirements, pavement friction and condition, and roadway safety topics.
- Facilitated the project delivery efforts of a staff of approximately 34 to deliver more than 353 design projects with a programmed value in excess of \$695.5M. Those projects were awarded to contractors for less than \$609M, a combined savings of over 12.4%. These savings allowed more than \$86.5M in additional roadway improvements to be made during that time period.

2000 to 2002 – **Transportation Project Manager** – District 8 (Springfield)

- Managed multiple consultant bridge and intersection projects along with internal project teams
- Coordinated Planning and Design Efforts on Ozark Mountain Highroad project in Taney County
- Responsible for the engineering work necessary to design roadway improvement projects to meet the needs of the situation while remaining within project budgets
- Signed and sealed project plans and specifications, ensuring the quality and content of the plans were sufficient for contractors to bid and construct the planned improvements.
- Reviews accident reports and provides testimony on behalf of the State in depositions, jury trials and arbitrations. Provides testimony on accident reconstruction issues like roadway geometrics, signing and striping layout, sight distance calculations, clear zone requirements, pavement friction and condition, and roadway safety topics.

1990 to 2000 – **Transportation Project Designer, Highway Designer Series** – District 8 (Springfield)

- Coordinates the efforts of several engineers and technicians on multiple highway engineering projects to deliver roadway plans as scheduled and budgeted
- Responsible for the day to day engineering and technical work particular projects, including field work necessary to plan and design a roadway improvement project
- Responsible for design plans, specifications and estimates for roadway improvement projects,

Awards: 2010 Pinnacle Award, Governor's Award for Quality and Productivity, Diverging Diamond Interchange TEAM, October 2010.

Activities and Organizations:

Springfield (Mo.) Little League Founding Member, Board of Directors 2014 to 2019
Safety Officer 2014, Board Secretary 2015, 2016, 2017, 2019.
Glendale Christian Church, Elders Board, 2010-2014, Secretary 2012, Deacon 2009, Youth Ministry Team 2008 to 2019
Southwest Missouri Football Officials Association, Member since 2001
Board of Directors 2010 – 2014, President of the Board 2013
Missouri State High School Activities Association, Member Official, Football 2001 – present
National Association of Sports Officials Member, 2001 – present
National Youth Sports Coaches Association, Member 2005 – 2011
Missouri State Emergency Management Agency, SAVE Volunteer, 2007 - present
Fallen Workers Memorial Ride for Remembrance, MoDOT District 8 Coordinator, 2009 & 2010

Selected Training Events:

MHTD Bridge Inspection School, Fall, 1990.
Transportation Alternatives During Highway Reconstruction, September 1991.
Introduction to Project Management, December 1995.
Advanced Roadside Design Guide, October 1996.
Specification Writing, December 1997.
Cross Functional Signal and Lighting Training, January 1999.
Value Engineering Study Seminar/Class Project, January 2001.
Subsurface Utility Engineering, April 2002.
Innovative Contracting, February 2003.
Designing with Steel Drainage Structures, Geogrids, and Erosion Control Products, September 2003.
NEPA and the Transportation Decision Making Process by FHWA, January 2004.
Comprehensive Safety Workshop I, February 2004.
Section 4(F) Training by FHWA, May 2004.
ATC 20: Post-Earthquake Safety Evaluation of Buildings, November 2004.
ATC 21: Rapid Visual Screening of Buildings for Potential Seismic Hazards, November 2004.
Crash Investigation Series 1-6, Central Missouri State University, February thru July 2006.
Crash Reconstruction, Central Missouri State University, August 2006.
Advanced Work Zone Training, February 2007.
FEMA ICS 100, Introduction to the Incident Command System, June 2007.
FEMA ICS 700, National Incident Management System, June 2007.
FEMA ICS 200, ICS for Single Resources and Initial Action Incidents, July 2007.
FEMA ICS 300, Intermediate ICS for Expanding Incidents, August 2007.
FEMA ICS 400, Advanced ICS for Complex Incidents, September 2007.
MoDOT's Advanced Leadership Development TEAM Member 2008-2011.
Disney Keys to Excellence, Management Development Institute, September 2008.
IMS - Leader's Role and Responsibility as Mentor, Chip Bell, December 2008.
ALD Meeting, Delivering in the Midst of Chaos, February 2009.
IMS- Power of a Positive Attitude, Dr. Ed Foreman, March 2009.
IMS- Innovative Thinking for Extraordinary Outcomes, Dr. Iris Firstenberg, April 2009.
ALD Strategic Advance Simulation in Jefferson City, May 2009.
Flexibility of the Green Book, AASHTO Webinar, June 2009.
I-64 Design-Build Cross Training, St Louis District I-64 Office, June 2009.

On-Scene Crash Investigation, July 2009.
Pedestrian/Bicycle Crash Reconstruction, September 2009.
Safety and Operational Effects of Geometric Design Features, June 2010.
FHWA's AASHTO Highway Safety Manual Training, June 2010.
ATC 20: Post-Earthquake Safety Evaluation of Buildings, October 2010.
IMS – The Other Side of Innovation, Chris Trimble, March 2011.
Basic Heavy Truck Accident Reconstruction, University of Central Missouri, May 2012.
National ADA Symposium, Indianapolis, In., June 2012.
Pro-Bike, Pro-Walk Conference 2012, Long Beach Ca., September 2012.
FHWA Pedestrian Safety Peer Exchange Meeting, Miami, FL, August 2012.
Designing For Pedestrian Accessibility Train the Trainer, FHWA, Lakewood, Co, May 2013.
National ADA Symposium, San Antonio, Tx., May 2013.
AASHTO Sub Committee on Design Meeting, Bozeman, Mt. June 2013.
AASHTO Non-Motorized Transportation Technical Committee, Bozeman, Mt. June 2013.
League of American Bicyclists, League Certified Instructor Training, Sullivan, Mo., December 2013.
Pro-Bike, Pro-Walk Conference 2014, Pittsburg, Pa., September 2014.
APBP National Conference, St Louis, Mo. September 2015.
In-Service Performance Evaluation of End Terminals, FHWA, Springfield, Mo., November 2015.
UNL MWRSF Pooled Fund Group Annual Meeting, Lincoln, Ne. April 2016.
AASHTO Task Force 13 Annual Meeting, Lincoln, Ne. April 2016.
National ADA Symposium, Denver, Co., June 2016.
UNL MWRSF Pooled Fund Group Annual Meeting, Lincoln, Ne. April 2017.
AASHTO Task Force 13 Annual Meeting, Lincoln, Ne. April 2017.
IPTM Event Data Recorder Use in Traffic Crash Reconstruction, Bloomington, Ill, April 2017.
NACTO Cities Tour St Louis, June 2017.
UNL MWRSF Pooled Fund Group Annual Meeting, Lincoln, Ne. April 2018.
IPTM Traffic Safety Symposium, Orlando, FL. May 2018.
AASHTO Sub Committee on Design Meeting, Franklin, Tn. June 2018.
FHWA ISPE Peer Exchange, Tampa, FL. August 2018.
TTI MASH Implementation Pooled Fund Group Annual Meeting, Denver, Co. September 2018.
Accessology PROWAG Training, Springfield, Mo, March 6, 2019.
Accessology ADAAG Training, Springfield, Mo, March 7, 2019.
MoDOT Litigation Workshop, Kansas City, Mo, September 2019.
FHWA STEP Training, Springfield, Mo, November 13, 2019.
Crash Data Group, EDR Summit 2020, Houston, TX, March 2020.
IPTM Traffic Safety Symposium, Orlando, FL. June 2021.
CED, Inc., Accessible Routes for ADA Accessibility, January 2022.
CED, Inc., ADA Requirements for the Design of Parking Spaces, January 2022.
CED, Inc., ADA Standards for Accessible Design Revisions Effective 3/15/12, January 2022.
CED, Inc., ADA Update: A Primer for State and Local Government, January 2022.
CED, Inc., Effectiveness of Countermeasures for Roadway Departure Crashes, January 2022.
CED, Inc., Geometric Design for Roads, Streets, Walks and Open Storage Areas, January 2022.
CED, Inc., Roadway Lighting Design, January 2022.
CED Inc., Low-Volume Roads Engineering, January 2022
CED Inc., Low-Cost Treatments for Horizontal Curve Safety, January 2022.
CED, Inc., 20 Proven Safety Countermeasures for Enhancing Safety on All Kinds of Roads, Jan 2022.