

Benjamin D. Hosinski, P.E.



Professional Competencies:

Forensic Civil Engineer who investigates:

- Road and roadside design issues
- Vehicular accidents where road defects or traffic control devices are at issue
- Construction claims and disputes, jobsite safety including OSHA compliance
- Building code and standards compliance including ADA
- Utility and environmental issues

Product Design Engineer with expertise in:

- Product development testing
- Design of test fixtures for mechanical components
- Materials evaluation and testing

Experience Summary

- Project management in civil, site development, and fiber optic cable construction projects
- Water resources project engineer
- Water resources, geotechnical, and fiber optic cable field engineer

Employment History:

Wolf Technical Services, Inc., Indianapolis, IN

Forensic Civil Engineer, Test Manager (September 2015 to Present)

Mr. Hosinski investigates accidents and failures including slip/trip/fall with regard to building code compliance and applicable standards; OSHA, ADA and construction site related accidents; evaluation of construction zone setup and signage; accident reconstruction focusing on line of sight, signal timing and stopping distance; and property damage, water intrusion or structural failure claims.

He also assists product design teams with mechanical design, engineering drawings and modeling, materials evaluation, testing support and machining/3D printing prototype parts. He was instrumental in the project to develop a Blast Seat for the US Army, coordinating the erection and instrumentation of a 35 ft. drop tower structure. He also assisted in the development of the blast



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acceleration simulation and developed testing sequences. He provided data acquisition and test program development assistance with tensile and compressive load testing of device components. Similarly, on the program to develop a low cost, modular and frangible Blast Test ATD, he helped develop the testing plan and instrumentation for compressive load testing on anthropomorphic test device components. He also supported tissue analog molding.

JDH Contracting, Plainfield, IN

Project Manager (May 2013 to September 2015)

Fiber Division - Coordinated efforts of a team of drafting technicians and field engineers to develop robust, least-cost fiber networks (outside plant). Identified make-ready requirements associated with NESC for aerial cable attachments and coordinated Joint Use Requests with pole owners. Worked with State and local right-of-way authorities to identify utility conflicts with underground installations and accommodate for them.

Civils Division - Prepared bids through understanding contract documents to identify scope of work, bonding and insurance requirements, product specifications, and project milestone deadlines. Coordinated with field crew superintendents and foreman to develop project schedule and plan construction techniques to achieve milestones.

Butler, Fairman & Seufert, Indianapolis, IN

Project Engineer (August 2009 to May 2013)

Worked with a team of engineers and technicians to develop solutions for potable water, storm water and wastewater management needs of communities. Responsibilities ranged from design calculations to Resident Engineer field inspection services, specifically for Indiana Guaranteed Energy Savings Contracts. Maintained extensive jobsite documentation and coordinated jobsite construction feasibility issues with lead designers and owners.

Nicholson Construction Company, Pittsburgh, PA

Field Engineer (January 2009 to August 2009)

Field engineer for a US Army Corps of Engineers project in Canton, Oklahoma. Responsible for monitoring the installation of diaphragm wall panels forming the walls of a spillway for the Canton Dam. Assisted in panel layout, assured panels were excavated to target depths and dug within verticality tolerances, tested the quality of slurry used to support excavations, inspected reinforcing steel, ordered concrete and monitored its placement, and gathered data to analyze production. Received certification to operate a telescopic forklift.

Soletanche-Bachy, Dubai, United Arab Emirates

Intern (May 2008 to August 2008)

Provided quality control for vibrocompaction and stone column works in the calcareous sands of the Palm Jabel Ali in Dubai, UAE. Analyzed CPT, seismic CPT, and load test data to determine effectiveness of soil treatment. Prescribed course of action in the event soils did not meet



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specifications after treatment. Compared and analyzed various CPT software packages to determine which empirical models were used in the software and if these models were appropriate.

Agency for Technical Cooperation and Development, Dushanbe, Tajikistan

Intern (May 2007 to August 2007)

Water and Sanitation and Reporting intern for ACTED's Dushanbe, Tajikistan office. Organized information to present to project donors, including the United Nations Development Program. Researched feasibility of water and sanitation and biogas projects in rural areas of Tajikistan.

Alt & Witzig Engineering, Incorporated, Indianapolis, IN

Cooperative Education Intern (May 2005 to August 2006 for three periods of approximately four months)

Field technician testing concrete and shallow foundations. Also performed duties as a drilling rig helper on various rigs performing soil sampling. Conducted testing in a soils laboratory (proctor, hydrometer, triaxial shear test, moisture content, etc.) and analyzed geotechnical data to compile reports for clients. Learned in-situ soil classification techniques and lab based soil classification practices.

Education:

Purdue University, West Lafayette, IN 2008
Bachelor of Science in Civil Engineering

Continuing Education:

Digitization in the Field of Civil Engineering, ASCE	2023
Complete Streets Design, ASCE	2023
Connected Automated Vehicles Past, Present and Future, ASCE	2023
Connected Vehicles, Smarter Cities, & Modern Signal Timing - How Traffic Engineering Strategies Will Change in the Years Ahead, ASCE	2023
Introduction to Variable Speed Limits, ASCE	2023
Chasing the Automobile - History of Pavement Design and Construction in the United States, ASCE	2023
Designing and Implementing Separated Bikeways, ASCE	2023
Improving Highway Safety: An Overview of 9 Proven Crash Countermeasures, ASCE	2023
Engineering Mid-Rise Buildings of Wood Construction, ASCE	2023
Lessons From Failures of Building Envelope, ASCE	2023
Cost-Effective Assessment of Pavement Condition, ASCE	2023
Earth Retaining Structures, ASCE	2023
An Introduction to Traffic Signal Operations, ASCE	2023
Connection Solutions for Wood Framed Structures, ASCE	2023
Radar Rainfall Estimation for Modeling and Design, ASCE	2023
Estimating Flood Flows Using Regression Methods, ASCE	2023
Erosion Control and Revegetation Materials; Design, Installation and Performance, ASCE	2023
Engineering the Future: 2020 Code of Ethics, ASCE	2023
Harley-Davidson Skilled Rider Course (Motorcycle Safety Foundation Basic Rider Course 2)	2022
Motorcycle Safety Foundation Street Strategies eCourse	2022



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American Traffic Safety Services Association Traffic Control Design Specialist Course	2021
Contributors to Speed and Considerations for Speed Management, ASCE	2021
Critical Aspects of Timing Traffic Signals to Maximize Road User Safety, ASCE	2021
The Road Safety and Signage Audit, ASCE	2021
Twenty Worst Pitfalls of Timing Traffic Signals, ASCE	2021
Construction and Management of Sidewalks and Recreational Trails, ASCE	2021
What Works for Traffic Calming and What Doesn't - Identifying Best Practices, ASCE	2021
Citizen Traffic-Related Requests – A Correspondence Guide for Working with Residents, ASCE	2021
Improving the Effectiveness of Traffic Control Devices	2020
Applying Access Management to Roadway Projects; A Better Approach to Access Management	2020
An Introduction to HEC-RAS Culvert Hydraulics	2020
Maintenance, Rehabilitation, and Sustainability of Pavements	2020
Principles of Pavement Design; Rigid Pavement Design; Flexible Pavement Design	2020
Special Inspections Under International Building Code Chapter 17	2019
University of Wisconsin – Madison Traffic Engineering Fundamentals	2018
University of Wisconsin – Madison Innovative Intersection Design and Operations	2018
Design & Construct Indy Go Red Line (ASCE – Indiana Section)	2018
Helical Piers – History – Engineering – Design (ASCE – Indiana Section)	2018
International Residential Code (IRC) 2015	2017
SAE International Design and Process Failure Modes and Effects Analysis (FMEA)	2017
ICLEF Trial Advocacy Skills College	2017
ASCE (Indiana Section) Annual Meeting	2017
<ul style="list-style-type: none"> • Citizens Deep Water Reservoir • Fort Wayne Deep Rock CSO Tunnel • Subsurface and Radar Interferometry 	
Clearly Visible - Optics, Lighting & Visibility for the Forensic Investigator	2016
Assessment of Foundation Wall Damage & Repair Alternatives	2016
Assessment of Foundation Slab Damage & Repair Alternatives	2016
Foundation Design and Construction	2016
Foundation Loads, Soils, Groundwater and Drainage	2016
Regulatory and Warning Signs – Providing Answers to Common Citizen Requests	2015
ATSSA Vehicle Departures from Roadway	2015
ASCE Construction Manager/General Contractor (CM/GC): Contracting in Transportation Infrastructure Programs	2015
ASCE Complying with the MUTCD – Traffic Signing for Horizontal Curves	2015
ATSSA Night Time Work Zone Lighting	2015
National Highway Institute (NHI) AASHTO Roadside Design Guide	2015
OSHA 30-Hour Construction Industry Training Program	2015
Structural Forensic Engineering	2015
Purdue Road School	2015
<ul style="list-style-type: none"> • Game Theory in Civil Engineering and Public Relations • Know Before You Go: Social Media/Communication Outreach • Incorporating Trees and Vegetation into Streets and Roads to Improve Storm Water Quality, Safety and Aesthetics • IndyGo Downtown Transit Center – Transforming Indianapolis Contaminated Sites and Their Effect on Your Project Schedule and Budget 	
LineDesign Engineering – Pole Loading and Guying Workshop	2015
Purdue University - Civil Engineering Professional Development Seminar	2014



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Purdue Road School	2014
<ul style="list-style-type: none">Green Noise Wall Construction and EvaluationDesign, Installation and Application of Precast Box CulvertsErosion & Sediment Control – The ABCs of BMPsINDOT Hydraulics – New Policies OverviewPost-Installation of Drainage Pipe (PII): Tools and TechnologiesChange Orders Related to Geotechnical EngineeringDrilled Shaft Design and Construction – Integrity Testing IssuesRadar Interferometry for Geotechnical and Structural Monitoring	
EJ Prescott CPESC - Ground Level Stormwater Solutions	2014
American Society of State Dam Safety Officials – Intro to Armoring Embankment Dams and Earthcut Spillways with ACBs	2014
ASCE - Stormwater BMP's for Undeveloped Rural Watersheds	2013
Water & Sewer Construction Inspections (IWEA), Indianapolis, IN	2012

Licenses:

Registered Professional Engineer in the State of Indiana	PE #11300263
Registered Professional Engineer in the State of Missouri	PE #2017006944

Current and Former Memberships and Affiliations:

- Member of the Indiana Section of the American Society of Civil Engineers (ASCE)
- Member of the Society of Automotive Engineers (SAE)
- Member of O.T.A.R.A (Ohio Traffic Accident Reconstruction Association)
- El Salvador Rural Electrification Technical Liaison
- Science Olympiad Event Coordinator, Butler University – Indianapolis, IN
- Member of SAFE Association – Wright Brothers Chapter