

Stephen J. Summerlot, P.E., MBA

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PROFESSIONAL PROFILE

Structural Engineer and project manager with 26 years of progressive and successful experience in Structural, Civil, and Environmental engineering. Demonstrated ability to develop practical, effective, and efficient solutions to a wide range of projects.

AREAS OF EXPERTISE

Project Management
Structural Design
Code Compliance
Quality Control
Relationship Management
ACI 318
Master planning

Hydraulic Design
Construction Cost Estimating
Budgeting
Structural Evaluation
Specification Development
Engineering Standards
Contract Negotiation

Project Development
Public Presentation
Plan Set Development
Project Commissioning
International Building Code
Permitting

PROFESSIONAL EXPERIENCE

HILTI Corporation, Indiana

2/22 to Present

Senior Structural Field Engineer

Statewide technical expert for Hilti structural products. Responsible for technical support, technical education, local market development, local business strategy, Root cause analysis of product failures, and account manager development.

- The field engineer role is the primary technical and marketing contact for all consulting engineering firms in the assigned coverage area. Roles include professional presentations to A/E firms on Hilti products, providing recommendations on specific applications for Hilti products, review of specifications and general notes for A/E firms for compliance to building codes and industry best practices, point of contact for Hilti design software (PROFIS) support
- Root Cause analysis for contractor identified installation issues or product failures. The field engineer is responsible for collection of information from all involved parties and from the site itself to prepare recommendations and document root cause(s) of the issue.
- Support of local account managers to identify upcoming projects and sales opportunities.
- Development of local account managers technical understanding of structural products through formal training on the Hilti products, internal presentations, and assisting with contractor questions.
- Business development through identification of potential sales opportunities and relationship development with contractors and owners.

PARSONS Corporation, Indianapolis, Indiana

10/19 to 2/22

Project Manager & Engineer of Record, Bridge Projects

Responsible for developing multiple State highway bridge projects from the proposal stage to the sealing of the design plans and specifications for construction. Roles include development of qualifications and project approach proposals, engineering fee negotiation, coordination and approval of subconsultant work, management

and review of the structural design, plan set development, specifications, quantities, cost estimate and overall project schedule to meet required project development. Direct supervisory and development responsibility of EIT engineers.

- Project Manager for the Bridge design at the reconstruction of the SR 912 at Inland Steel/ArcelorMittal/Cleveland Cliffs interchange and bundled bridge projects (\$30M construction budget). Responsible for the on time delivery of the plans and specifications for the replacement bridges at the interchange. This includes INDOT approval of the scope of work and material approval, timely coordination and identification of utility and railroad conflicts, structural design, highway geometry coordination, plan development, unique special provision development and approval, overseeing the structural design for the project including the local staff and remote offices to develop portions of the overall bridge design.
- Project Manager for Laport District and Greenfield on call bridge rehabilitation projects. Work included site inspection for development of the scope of work with the district staff, ongoing coordination with subconsultant or INDOT provided project support services, development of structural repair details for approval by INDOT and the development of structural analysis, plans and specifications for INDOT bidding.

Citizens Energy Group, Indianapolis, Indiana

10/12 to 10/19

Engineering Project Manager, Wet Plant Engineering

10/12 to 10/19

Responsible for planning, design and delivery of capital projects in the Citizens Water and Citizens Wastewater systems. Responsibilities start with the development of the project scope, continuing through the development of the project plans, specifications and bid documents. Served as the owners representative during construction either directly or supervising the consultant inspectors with the approval of RFI's, work progress payments, change orders, shop drawing reviews, project commissioning and closeout. Citizens career total of \$30 million dollars of capital projects scoped, developed and delivered..

- Developed two new surface water intake facilities through a progressive design build process to deliver the \$20M projects in a fast-tracked approach. Utilized cross functional teams to define and refine the project's design criteria while developing the projects design plans and construction sequence with the consulting firm and contractor. Authorized construction activities as specific work packages became available to maintain accelerated schedules. Responsibilities included all phases of the project including preliminary scoping, design development, permitting, construction shop drawing approvals, start up and commissioning.
- Successfully worked with state and federal permitting agencies to permit and implement a plan to dredge Morse and Geist Reservoirs to restore lost storage capacity and directed engineering service providers to develop multi year bid packages for both reservoirs.
- Developed structural details and served as the engineer of record for repairs of water and wastewater facilities. Worked with supply chain to solicit proposals for the work and then served as the owners representative for construction including shop drawing approval.
- Managed the developed and implementation of the long term plan to maintain and improve the reliability of the Indianapolis Water Company Central Canal.
- Developed total project cost estimates and schedules for the 5 year construction planning budget for Citizens large civil infrastructure projects.
- Developed multiple improvement projects for water facilities requiring coordination with operations for outage, in-service and commissioning.
- Managed multiple SCATA improvements to the water and wastewater systems.

- Managed the development of a major rehabilitation project on the Citizens Aqueduct a 4-span cast in place bridge.
- Participated in Lean Six Sigma projects to develop measures of department effectiveness
- Managed the long term improvement study of the Westfield Wastewater Treatment Plant Capacity and solids handling improvement plan.

Burgess and Niple, Indianapolis, Indiana

1/04 to 10/12

Group Manager, Large Hydraulics, Permitting & Structures

3/11 to 10/12

Developed scope of work, negotiated contracts, and oversaw the development of plans, specifications and permit applications for hydraulic structures for new construction, reconstruction and rehabilitation projects on large utility structures

- Assign work and mentor team members on hydraulic analysis of dams, culverts, stormwater detention and HEC-RAS modeling projects.
- Responsible for assigning work and mentoring team members for permit applications to the Indiana Department of Natural Resources, US Corps of Engineers (Section 404, Section 10), and Indiana Department of Environmental Management (Section 401, Rule 5 program)
- Performed business development and developed potential client leads
- Client liaison for IDNR Dam Safety Section
- Responsible for project schedule, contract financial performance and meeting project scope.

Project Manager

3/05 to 10/10

- Created project schedules, scopes of work, budgets, and engineering designs for structural, utility projects ranging in fee from \$50,000 to \$200,000
- Provided technical expertise and managed shop drawing review process for all bridge beams, expansion joints, and bearing pads for quality and conformance to Indiana Department of Transportation standards and design plans
- Mentored drafting technicians and Engineering Interns in shop drawing review procedures
- Prepared engineering services fee requests and negotiated engineering fees with clients
- Responsible for project schedule and financial performance
- Managed the INDOT Bridge Shop Drawing review program Oversaw the INDOT shop drawing review process for all INDOT Bridge plans. Served as the technical expert for resolving issues between design plans and shop drawings for structural steel, prestressed concrete and post-tension concrete beams
- Senior reviewer for the INDOT consultant review program of INDOT projects. Developed an in-house guidance document for the review of plans and performed a quality control check of other reviews for consistency in evaluation and approach.
- Managed Structural evaluations and reports on existing facilities

Project Engineer

1/04 to 3/05

- Completed structural design calculations and project specifications for transportation and utility infrastructure projects.
- Designed structural steel installations, pre-stressed and cast-in-place concrete structures, and site development work (storm drainage, sanitary pipe networks, water lines, site grading).
- Prepared permit applications and hydraulic models for regulatory compliance with IDNR, US Army Corps of Engineers, Environmental Protection Agency and the Indiana Department of Environmental Management.

Steven J. Christian & Associates, Indianapolis, Indiana

10/00 to 1/04

Project Engineer

- Designed bridge replacements, including structural analysis, hydrologic/hydraulic calculations, project specifications, and plan sets.
- Developed example design calculations and design standards for INDOT to use in implementing AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals.
- Provided Engineering sealed shop drawings for the patented HY-SPAN 3-sided culvert system.
- Developed an Excel spreadsheet to significantly reduce the design and detailing time of shop plans.
- Performed structural evaluations of existing facilities

Beam, Longest & Neff, Indianapolis, Indiana

10/98 to 10/00

Project Engineer

- Verified highway geometry, prepared preliminary bridge sizing, developed cost estimates and forecasts, and prepared 3D model of alternatives for the Ohio River Bridges Project.
- Designed and prepared plans and specifications for bridges and roadways in Indiana, Kentucky and West Virginia.
- Performed structural evaluations of existing facilities

UNIVERSITY EDUCATION

Masters of Business Administration, University of Indianapolis, Indianapolis, Indiana (2009)

Bachelors of Science in Civil Engineering, Purdue University, West Lafayette, Indiana (1996)

COMPUTER SKILLS

Microsoft Office, Microsoft Project, AutoCAD, MathCAD, Microstation, Geopack, InRoads, LEAP bridge, Visual Analysis, STAAD. Salesforce, Primavera P6, Primavera Unifier, MDX Software, Merlin-DASH

CODE FAMILIARITY

American Institute of Steel Design (AISC) ASD, AISC LRFD, AASHTO LRFD Bridge Design Manual, ASTM Structural Steel Specifications, AASHTO Luminaries Design Guide, ACI-318, International Building Code, Indiana Building Code

TRAINING, MEMBERSHIPS AND HONORS

American Society of Civil Engineering,
Indiana Structural Engineers Association
Indiana Section American Water Association presenter, 2015, 2017, 2019
Chi Epsilon, Civil Engineering Honor Society
Delta Mu Delta, International Honor Society in Business Administration
Burgess & Niple Beacon Leadership Development 2008
PSMJ Project Management Bootcamp
Design Builder Institute of America
ACEC of Indiana 2014 Engineering Excellence Award – Grand Project Award
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