

LAURIE SHERFEY, PE

SUMMARY

Ms. Sherfey is a well-established structural engineer with over 30 years of experience. Her areas of expertise include but are not limited to the evaluation of structural and roofing failures, development and management of construction criteria, scheduling and quality control of new structures and remodeling of existing structures. Ms. Sherfey has conducted Forensic Analyses for Civil and Structural Engineering field investigations including, but not limited to: structural failures of steel, wood, concrete, and masonry structures; construction defects; roofing failures, structural water intrusion; building code compliance; foundation failures and building fires.

EDUCATION

Pennsylvania State University State College, 1982 – Bachelors in Civil Engineering

PROFESSIONAL REGISTRATIONS

Professional Engineer:

- Virginia #0402017802

HAAG Certified Inspector - HCI # 201809141:

- Residential Roofs
- Commercial Roofs

CONTINUING EDUCATION

Courses and Certifications completed in the following areas:

- Designing Structures for Explosive Loads.
- Explosive Safety.
- Navy Explosive Safety criteria.
- Structural criteria – Seismic forces, Wind forces, ASD and LRFD steel codes, ACI concrete design and construction, concrete masonry unit design and construction, weld design.
- AutoCAD Design.
- Government contracting, negotiating, and legal aspects.

CAREER HISTORY

Forcon International Corp., Richmond, VA – Structural Engineer

Conducting forensic civil and structural engineering evaluations for commercial and residential buildings including, but not limited to structural failures of steel, wood, concrete and masonry structures, construction defects, roofing failures, structural water intrusion, property damage, moisture intrusion, building code compliance, and other issues related to structures.

**Navy Ordnance Safety and Security Activity (NOSSA), a command of NAVSEA -
Structural Engineer**

- Site approved facilities at Navy bases world-wide for explosive safety
- NOSSA's Subject Matter Expert (SME) on ordnance storage facilities - wrote NOSSA guide for identifying and assessing magazines Navy-wide.
- Presented technical training on magazines at NOSSA's biennial Explosive Safety Conference.
- NOSSA's SME on hardened construction - interface with NAVFAC EXWC for new construction requiring resistance to blast loads in areas with high explosive risk.
- Inspected magazines to identify type, assess condition, and confirm blast resistance of structure.
- Supported all team members with structural issues related to explosive safety, construction, or facilities.
- Liaison with NAVFAC, DDESB, and NAVAC EXWC on all structural issues related to explosive safety.

**Naval Air Warfare Center, Aircraft Division – Joint Strike Fighter (JSF) Facilities
Engineer/Program Manager**

- Led the Integrated Product Team (IPT) resolution of technical/engineering issues for facilities for standup of the JSF at bases worldwide.
- Evaluated and surveyed sites, facilitated planning, schedule, and MILCON and OM&N funding.
- Technical reviews of concepts and facility designs.
- Oversight - construction of new facilities and upgrade of existing facilities for new aircraft requirements.
- Directly collaborate with bases on site-specific challenges and requirements, as well as with policy- level military representatives on issues pertaining to multiple bases.
- Conduct technical reviews, resolve site activation issues, and monitor progress of design and construction to meet budget, schedules and projected milestones for overall JSF program.
- Develop technical guidance, logistics and processes to prepare bases for deployment of the aircraft.

NAVFAC MidAtlantic – Supervisory Civil Engineer (Structural)

- Direct supervision of 3 to 7 Structural Engineers
- Established project scope, design and construction criteria, and structural cost estimate.
- Design accomplished using In-house (IH) architects and engineers, or contracted A/E design services.
- A/E design fee estimates and fee negotiations.
- Reviewed A/E drawings, calculations, specifications, and cost estimates for conformance to all technical criteria and contract requirements, operational requirements, and adherence to budget.
- Met with military client during design process to establish functional and mission requirements for facility.

- After contract award, reviewed Design-Build submittals, shop drawings, and resolved construction issues.
- As supervisor, managed Quality Control and schedule for all contract documents.
- Assigned projects, certified timesheets, approved leave, travel orders, supply requests, training, recruited and hired team, evaluated performance, and directed professional development of employees.
- Provided safety training, enforced EEO policy, and resolved performance/conduct issues.
- Led design and construction of a wide variety of facilities, including numerous highly complex structures.
- Developed excellent technical writing skills; wrote technical reports and studies.
- Chaired Technical Review Boards, A/E Slate/Select Boards, and resolved Contractor protests.
- Communicated effectively in meetings and telephone conferences, and by Email. Led small and large groups in resolving complex technical problems.

NAVFAC MidAtlantic – Civil Engineer (Structural)

- Met all structural load requirements -wind pressure from hurricanes, seismic events, ATFP blast loading, and new criteria for prevention of progressive collapse.
- Mastered innovative building technology such as concrete tilt-up panel construction, and LEED design.
- In addition to structural design effort, acted as Design Manager on increasingly complex facilities.
- Acted as interim Project Manager on projects.
- Chaired Best Value Source Selection (BVSS) Boards for a wide variety of facilities.
- Participated in A/E Slate and Selection Boards for award of multi-task contracts for A/E services.

NAVFAC Atlantic Division – Structural Engineer

- Proficiency with IH design for complex structures using reinforced concrete, reinforced masonry and steel.
- Structural Branch's SME for all matters pertaining to concrete masonry - and in particular, reinforced concrete masonry - design, specifications, detailing, and constructability.
- Acted as Design Manager, the technical lead of the multi-disciplinary team.

Navy Public Works Center – Civil/Structural Engineer

- Civil and Structural design effort, including drawings, calculations, specifications and cost estimates.
- Performed site surveys for construction projects.
- Technical support to the PWC construction workers, such as welders and pipe fitters.
- Resolved site and field issues projects under construction.
- Analyzed existing structures for load capacity for storage purposes as well as for renovation/repair projects.

- Inspected new and existing construction, and designed or recommended repairs and corrections.

Dewberry & Davis – Civil Engineer

Completed hydraulic and hydrologic studies of communities for preparation of flooding models for use by FEMA for the National Flood Insurance Program (NFIP).