

## Joshua B. Cook | Structural Engineer, P.E.

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### Professional Summary:

Mr. Cook is a registered professional engineer with 16 years of experience in structural engineering, management, and storm water system design. His professional career contains a broad background of structural engineering experience in the areas of bridges, foundations, retaining walls, mast arms, sign spans/cantilever, and mass grading. He has performed forensic engineering services and building related failure analysis for cause determination. Mr. Cook has deposition experience. Additional areas of expertise include:

- Steel and Aluminum Design
- Timber Design
- Reinforced Concrete Design
- Storm Drainage Piping System Design
- Structural Engineering and Management

### Licenses and Certifications:

Professional Engineer, FL, #68252#

### Project Experience:

#### **EFI Global, Orlando, FL**

##### **Type of Project: Principal Forensic Engineer, Contracting**

Responsible for residential construction and failure analysis by applying engineering principles in accordance with industry standards. Handle responsibilities of conducting field investigations and analyzing fires/failures/accidents for causation and damage extent reports. Support conclusions by providing appropriate testimony in legal proceedings.

#### **Florida Bridge and Transportation, Inc. (FBT), Orlando, FL**

##### **Type of Project: Project Engineer**

Responsible for AASHTO/FIB beam bridge design, retaining wall design (both temporary and permanent), soil anchored sheet pile wall design, box culvert design, drainage structure design, mast arm design, sign structure design, out of tolerance pile analysis and various LRFD design.

#### **Harris Civil Engineers, LLC, Orlando, FL**

##### **Type of Project: Engineering Design**

Responsible for engineering design and project management of site development projects in the Central Florida region and several Caribbean islands. Tasks included managing technical staff, preparing engineering construction drawings and calculations, specifications and reports, and managing regulatory approvals for land development projects.

### Residential

Performed over 700 residential investigations for storm-borne damage, roof covering evaluation, moisture damage, foundation evaluation, vehicle impact evaluation, tree impact evaluation, and flooring evaluation since 2015.

**Hotels/Resorts/Timeshares:**

Disney Animal Kingdom Lodge, Orlando, Florida - Storm water design and specifications review/compilation for 80± acre site.

Baker's Bay Club, Great Guana Cay Bahamas - Storm water analysis for golf course and resort.

Grande Lakes, Orlando Florida - Potable and fire water design for hotel/condos site.

Cas En Bas, St Lucia - Provided storm water solutions for golf course and resort.

Disney Swan and Dolphin Hotel, Orlando Florida - Resolved ballroom/patio flooding by coordinating pipe inspection/cleaning.

Nemours Children's Hospital, Orlando Florida - Force main and lift station design.

Robin Bay Resorts, St. Croix USVI - Stormwater design for roadways and manifold lift stations design.

**Construction:**

Orlando Court House - Responsible for all project layout and dimensional accuracy, interpretation of plans and specs, supervising job production, and job-wide safety

**Structures:**

SR 408 Widening Improvements, C253B over Lake Underhill Drive and Crystal L Drive, Ped. Bridge, Widening, OOCEA, Orlando, FL — Design EIT responsible for quantity calculations and quality assurance checks.

I-275 Improvements, FL – Design EIT responsible for open steel box girder, straddle bent/hammerhead pier, pc beam and deck design.

**Bridges:**

CR 210 Over FEC Railroad and US1, St. Johns, FL.

Tony Parsons Lane, Holmes County, FL.

SR 79 Reedy Branch, Washington County, FL.

SR 69 over Graves Creek and Stafford Creek, Homes County, FL.

PGA Blvd Ramp Replacement over Florida's Turnpike, Palm Beach County, FL

### Professional Experience:

EFI Global, Orlando, FL, Structural & Forensic Contractor, 2014 - Present

Florida Bridge and Transportation, Inc. (FBT), Project Engineer, 2010 - 2014

Harris Civil Engineers, LLC, Project Engineer, 2006 - 2010

Hensel Phelps Construction Co., Project Engineer, 2005 - 2006

HNTB Corp. – Design Engineer, 2004 - 2005

West Virginia University, Researcher, 2002 - 2004

Potesta and Associates, Engineer/Surveyor, 2000 – 2001

### Specialized Education:

Mathcad 15, RISA 2-D, Turbo Pascal, ANSYS FEM, C++, Microsoft Office, Eagle Point Ramsteel, Bridge Design Sys. (Pier), FDOT Structural Programs, Smart Bridge Suite, Cwalsht, H2ONet, EPANet, StormCAD, AdICPR, AutoCAD, MicroStation V8, SCUBA Advanced Open Water Certified.

### Education:

Master of Science, Structural Engineering, West Virginia University, 2004

Bachelor of Science, Civil Engineering, West Virginia University, 2002

### Affiliations:

American Society of Civil Engineers  
Gamma Beta Phi – Honor and Service Society  
HAAG Certified Roof Inspector

### Honors and Awards:

Naval Academy Nomination – Governor Bob Wise (WV), Recipient of the McBride Scholarship