

FRANCIS S. EGLOFF

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SUMMARY

Experience in building design and construction as **structural project engineer** with high achievement record of completed designs and drawings on time and within budget parameters accomplished. Ambitious leader who with strong work ethic, helped build strong teams and developed positive client relationships. Other skills include: dependability, innovation and moral character. Experience in structural engineering, design, development, detailing, specialized engineering investigations and evaluations, analysis of existing building systems, building up-fits, drafting, site visits, shop drawing review of bank, government, industrial, commercial, historical, bridge, manufacturing, airport, hangar, hotel, convention center, assisted living, NASA, office, retail and parking garage projects in Southeast. Experienced in steel beam, composite steel beam steel joist, steel crane, aluminum beam and column, concrete beam and column, concrete flat slab, concrete one and two way slab, concrete slab on grade, concrete tilt-up panel, concrete environmental structure, wood framing, wood shear wall, concrete and masonry retaining and basement walls, foundation, masonry wall and beam, bridge, metal stud wall and shear wall design and detailing and carbon fiber analysis.

My computer software skills include: Enercalc, RAM Structural System, RAMSBeam, RISA-2D, RISA-3D, AutoCAD Lite 2007, Microstation, PCA Mats, TJ-Beam, Excel and NCMA Masonry design software.

EXPERIENCE

ENGINEERED CONCEPTS, STRUCTURAL ENGINEERS, Greensboro, NC, (10 employees)

2002 - 2009

Structural Engineer

- Designed exciting, challenging, safe and economical steel, concrete, aluminum, wood, heavy timber and masonry structures; which were structurally detailed, shop drawings reviewed, drafted and field inspected on projects in Southeast. During many site visits completed, where field problems discovered, solutions to problems were addressed either in field or in timely manner, which greatly helped architects, owners and contractors. This avoided any problems.
- Developed prototype building designs, which achieved substantial amount of time and money saved to owner, which allowed tight project schedules for prototypes. Achieved prototype fees and time to complete work, which were 40% lower than original design.
- Developed Excel programs for certain types of structures, which greatly increased efficiency and avoided any expensive problems for company. This saved 75% of some fees and time instead of doing hand calculations.
- Utilized RAM Structural System design software, which greatly increased efficiency and saved 15% time.
- Solved environmental concrete tank design challenge by using PCA Mats, RISA-3D and special Excel program.
- Due to extensive reinforced concrete building construction administration experience, was used to do many site visits to condo project to try and catch any field problems there, which saved company from expensive problems later.

Lead designer of:

BB&T Financial Centers in Cary, NC, Newnan, GA & Duluth, GA; BB&T Branch Banks & Bank Renovations in Southeast Swansboro Waste Water Treatment Plant & Pump Station, Swansboro, NC
Wing Walls & Retaining Walls, Kannapolis, NC; Bridford Parkway Retaining Walls, Greensboro, NC
Northeast Park Structures, Greensboro, NC; Anglo-Eaglin Building Foundations, High Point, NC
Memorial Hall Renovations, Chapel Hill, NC

TRIAD DESIGN GROUP (TYE, SPOTTS & DAVIS), ARCHITECTS & ENGINEERS, Greensboro, NC, (12 empl.)1995 - 2001**Structural Engineer**

- Designed challenging, economical and safe steel, concrete, wood, heavy timber, aluminum and masonry structures; which were structurally detailed, shop drawings reviewed, drafted and field inspected on projects in Southeast. During site visits resolved problems and offered solutions.
- Developed at later date required field modifications to a structure while it was being constructed to achieve on time completion date. These modifications involved huge effort from design team with reasonable additional services cost. This avoided expensive problems for company.
- Utilized new RAM Structural System design software on hotel project to get building loads above to transfer girders. This greatly increased efficiency, therefore saving company 50% of time and avoided any problems.
- Designed 26-foot high retaining wall with adjacent column footing loads on wall design by using Retain Pro software. This saved 80% of design time to do hand calculations.

Lead designer of:

Grandover Resort Hotel, Conference Center, Ballroom & Club House, Greensboro, NC 926,000 sf
 Eaton Plant Addition, Roxboro, NC
 Dudley-Lee Building, Greensboro, NC
 ACC Headquarters Building, Greensboro, NC
 Koury Convention Center Addition, Greensboro, NC
 Social Security Offices, various locations in Southeast
 Salvation Army Building, Greensboro, NC
 Dyno-Overlays Office/Warehouse, Greensboro, NC
 H. J. Hangar in PTI Airport Addition, Greensboro, NC

RS&H ARCHITECTS, ENGINEERS & PLANNERS, INC., (500 employees total)**Structural Engineer/CADD Manager, Greensboro, NC, (85 employees)**

- Designed economical, and safe steel, concrete, masonry and wood structures; which were structurally detailed, shop drawings reviewed, CADD work drafted, drafted and field inspected on projects in Southeast.
- Used new highly efficient RAMSBeam software on project, which achieved 20% savings in time and money.
- Developed innovative prototype building designs, which achieved 20% savings in time and money and allowed for project schedule for prototypes to be tight.

Lead designer of:

USPS Kit of Parts Post Offices, various locations in Southeast
 EPA Health Effects Research Laboratory, Research Triangle Park, NC
 NASA VAB Maintenance Platform, Cape Canaveral, FL
 U. S. Army Corps of Engineers Mates Crane Building, Fayetteville, NC
 N. C. A&T State University Technology Building, Greensboro, NC

Senior Structural Technician/CADD Operator, Jacksonville, FL, (350 employees)**HATCH MOTT MACDONALD (HATCH ASSOC. CONSUL. INC.,) CONSULTING ENGINEERS, Buffalo, NY, (50 employees)****Structural Designer****EDUCATION**

N. C. A&T State University, Greensboro, NC, Civil Engineering, All Structural Engineering Courses Taken
 Jacksonville University, Jacksonville, FL, Mechanical Engineering, part-time for 2-1/2 years
 Buffalo State University College, Buffalo, NY, BA Biology

PROFESSIONAL CREDENTIALS, ASSOCIATIONS & VOLUNTEERING: Registered Engineer-in-Training, North Carolina, June 1988, American Society of Civil Engineers, Structural Engineers Association of North Carolina and American Institute of Steel Construction, Core Team Member for Guilford Interfaith Hospitality Network at St. Paul the Apostle Catholic Church, 1999-present and President, Greensboro Ski & Outing Club, 1990-1992.