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dweightman@callDEC.com

DAVID A. WEIGHTMAN, P.E. | President

Summary

Dave is a professionally registered civil engineer with 35 years experience analyzing and designing steel structures, masonry buildings, and reinforced concrete foundations. He founded Downingtown Engineering Consultants, Inc. in 2002. His background includes heavy industrial plants, waste-to-energy facilities, power plants, chemical plants, rail transportation, and pharmaceutical industries.

Selected Experiences

- Severstal NA Sparrows, Point, MD: Structural building upgrades to Basic Oxygen Furnace, BOF emission ductwork supports, crane runway inspections, roof truss strengthening, structural renovations at Blast Furnace.
- Veolia Environmental Services: Structural condition surveys at Montgomery, Pinellas, Vancouver, Islip, Dutchess, Charleston, Long Beach, and York waste-to-energy facilities.
- Keystone Engineering Group: Pre-engineered building foundations, concrete foundations for electrical equipment, sub-stations, and high mast lighting.

Employment History

- Downingtown Engineering Consultants, Inc.
- Washington Group Int'l.
- Lone Star Steel
- Aetna-Standard Engineering
- Koppers Co., Inc.

Education and Registrations

West Virginia University, BS Civil Engineering
Registered Professional Engineer: CT, DE, FL, IN, MD, MA, NJ, NY, OH, PA, & VA

Affiliations

American Concrete Institute (ACI)
American Institute of Steel Construction (AISC)
American Society of Civil Engineers (ASCE)
American Institute of Steel Technology (AIST)



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ROBINSON E. BLAIR, P.E. | Director of Engineering

Summary

Rob has over 10 years of engineering experience designing buildings and other structures. He has headed the structural design team on numerous projects as well as coordinated with consultants for the installation of other building systems. Clients he has served include Montgomery County-MD, Philadelphia International Airport, Washington Metropolitan Transit Authority, and NASA.

Selected Experiences

- Reading Hospital, PA: Analyzed light gage steel ceiling strut systems to support medical equipment.
- Penn State – Hershey Medical Center, PA: Engineer of Record for a 1300 stall precast garage on mini pile foundations. Garage and foundations were designed for an adjacent 300 stall garage expansion.
- Severstal NA, Sparrows Point, MD: Restoration engineering and documents for the replacement of over 20 tons of steel framing supporting a steel tin-coating process line to be replaced in two-3 week phases.
- Villa Gracias, Tegucigalpa, Honduras: Visited local suppliers to determine available material and designed an assembly building for 300 people using local technologies.
- Arcelor Mittal, Coatesville, PA: Personal fall protection
- Keystone Engineering Group: electrical equipment foundations

Employment History

- Downingtown Engineering Consultants, Inc.
- Walker Parking Consultants, Inc.
- Pennsylvania Shipyard Engineering & Architecture LLP

Education and Registration

Drexel University, BS in Civil Engineering & BS in Architectural Engineering
Registered Professional Engineer: MD, NJ, PA

Affiliations

American Society of Civil Engineers (ASCE)



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DENNIS STEFANSKI, E.I.T. | Project Engineer

Summary

Dennis is an engineer-in-training with three years experience working with steel and concrete. He has designed and analyzed structural elements for fire damaged conveyor trusses, reviewed contractor erection plans, and conducted site inspections for new structures.

Selected Experiences

- Severstal NA Sparrows Point, MD: Analyzed crane girders, designed lift beams, and rigging lug plates.
- Design of new structures (load path analysis, design of beams, columns, slabs, foundation design)
- On-site inspection of building construction progress from new convenience stores to new university buildings.
- Calculations of loads for wind, live, snow, dead on new structures.
- Lead surveying, documentation, and detailing of repair plans for various structures.
- Long term study of GFRP Reinforced Normal Strength concrete beams (graduate research)

Employment History

- Downingtown Engineering Consultants, Inc.
- CVM Engineers
- Graduate Research, Villanova University

Education

Villanova University, Ongoing (Masters of Science, Structural Engineering)
Villanova University, BS Civil Engineering

Affiliations

American Concrete Institute (ACI)