



DAMIAN CARTWRIGHT, P.E.

Managing Principal

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SUMMARY

Versatile and accomplished Civil Engineer with over 21 years of experience, adept in Aviation and Marine Port Management, Capital Project Management, and Professional Engineering Design Consulting. Notably registered as a Professional Engineer in Florida, the Bahamas, US Virgin Islands, and Alabama.

Proficient in a wide range of software applications including Staad Pro, AutoCAD, Revit, and more. Proven track record in successfully managing and executing diverse projects. Seeking opportunities to apply expertise and drive impactful engineering solutions

GET IN TOUCH

Website
buildteceng.com

Linked In
[linkedin.com/damiancartwright/](https://www.linkedin.com/damiancartwright/)

Education

Civil Engineering
Bachelors of Science with Honors
University of Florida
Gainesville, Florida
December 2000

Professional Registration

Professional Engineer

- Florida P.E. No. 63056 | 2005
- The Bahamas P.E. No. 10141 | 2011
- US Virgin Islands P.E. No. 28851 | 2014
- Alabama P.E. No. 50673 | 2022

Skills

Staad Pro

Auto Turn

ASAD

Cascade

AdICPR

Civil 3D

AutoCAD

Micro Station

WaterCAD

Revit



BuildTEC, LLC

2021- Present

Principal

Cyril E. King Airport Terminal Expansion - Phases 1 & 2 Structural Analysis, St. Thomas, USVI

- Conducted structural analysis of the existing terminal facility to support the Phase 1 Commuter Wing and Phase 2 Northern Jet Bridge Expansions.
- Collaborated with T.Y. Lin International as a sub-consultant to deliver comprehensive engineering analysis.

Hampton Inn Suites, St. Thomas, USVI

- Performed schematic 30% structural analysis and design for the deep foundation system of a new 70,000 sq. ft. 5-story Hampton Inn Suites Hotel on St. Thomas, USVI.
- Worked as a sub-consultant to Kimley Horn & Associates (KHA).

Ocean Point Terminals, LLC, St. Croix, USVI

- Provided miscellaneous structural and site/civil consulting services to Ocean Point Terminals, LLC under the Master Services Agreement (MSA) through Task Orders.
- Demonstrated versatility and expertise in addressing various structural and site-related challenges.

Landsby Developers, LLC - 30 Acre Mixed-Use Residential/Commercial Development, St. Croix, USVI

- Led civil engineering efforts for the site layout, roadways, paving, grading, drainage, potable water, and sanitary sewer utility infrastructure design.
- Managed diverse aspects of the project to facilitate the development of a 30-acre mixed-use residential/commercial complex.
- Designed a portable water and fire protection storage system, and a packaged waste water treatment plant (WWTP) for the development.

Henry E. Rohlsen Airport (HERA) - Runway Paved Shoulders and Electrical Vault Project, St. Croix, USVI

- Undertook nighttime construction inspection services for the project in collaboration with American Infrastructure Development (AID).
- Ensured adherence to safety protocols and quality construction standards.

U.S. Virgin Islands Department of Public Works (DPW) Administration Complex, St. Croix, USVI

- Served as the civil engineering consultant for site layout, paving, grading, drainage, potable water, and sanitary sewer utility infrastructure design.
- Worked in conjunction with Jaredian Design Group to deliver a comprehensive and sustainable facility.

U.S. Virgin Islands Department of Public Works (DPW) - Concordia West Complex, St. Croix, USVI

- Served as the civil engineering consultant responsible for site layout, paving, grading, drainage, potable water, and sanitary sewer utility infrastructure design.
- Demonstrated expertise in delivering robust infrastructure solutions for government facilities.

U.S. Virgin Islands Police Department Administration Complex, St. Croix, USVI

- Dual role as the structural and civil engineering consultant for the project.
- Successfully executed the building structural analysis and design, site layout, paving, grading, drainage, potable water, and sanitary sewer utility infrastructure design.

Independent Consulting

2007-2021

Civil Engineer

U.S. Virgin Islands Legislature Building Remodel, St. Croix, USVI

- Conducted structural engineering analysis and design for the remodel of a 20,000 sq. ft. building, incorporating a new multi-level interior stairwell, elevator shaft, and grand portico entrance.
- Successfully transformed an existing 5,000 sq. ft. basement into office space, enhancing the building's functionality.

Yusef and Sons, LLC Convenience Center, St. Croix, USVI

- Led structural engineering analysis and design for a new two-story 350,000 sq. ft. structural steel and concrete department store.
- Demonstrated expertise in handling large-scale construction projects to ensure structural integrity and safety.

VIYA Building Atrium Closure Remodel, St. Croix, USVI

- Performed structural engineering analysis and design to close an existing 1400 sq. ft. atrium, creating second-level floor space for medical offices.
- Provided innovative solutions for repurposing existing spaces to accommodate the client's needs.

Sunny Isles Clock Tower Restoration, St. Croix, USVI

- Undertook structural engineering analysis and design for the rehabilitation of the Sunny Isles Clock Tower steel structure.
- Implemented necessary improvements to preserve and restore the historic landmark.

U.S. Virgin Islands Housing Finance Authority - Estate Mount Pleasant, Phase 4 - Subdivision Development, St. Croix, USVI

- Designed the gravity sewer main network for a 13.71-acre, 40 - 1/4 acre lot subdivision development in collaboration with the design-build contractor, New Wave Development, LLC.
- Ensured efficient and reliable sewer infrastructure for the residential development.

Albany Marina Development, Nassau, Bahamas

- Conducted civil engineering analysis, design, and plan production for the site layout, utility infrastructure, and drainage design of a high-end mixed-use development.
- Contributed to the successful development and functionality of a prestigious project.

Queen Elizabeth Sport Centre Highway Design, Nassau, Bahamas

- Performed the roadway civil engineering design, utilizing AutoCAD Civil 3D for extensive corridor modeling to develop the alignment, vertical profile, super-elevation, and cut and fill sections.
- Ensured a well-planned highway design to accommodate the Sport Centre's transportation needs.

The Pointe West Bay Street Re-Alignment, Nassau, Bahamas

- Led the roadway civil engineering design to re-align approximately 1-mile of the West Bay Street Corridor to accommodate The Pointe Resort Development.
- Successfully integrated infrastructure changes to support the resort development project.



Experience

Virgin Islands Port Authority, St. Croix, USVI June 2017-May 2021 Assistant Executive Director | Director of Engineering

- Collaborated with the Executive Director to develop and propose policies for approval by the Governing Board, ensuring alignment with organizational objectives and regulatory requirements.
- Played a key role in policy implementation, working on behalf of the Governing Board to ensure effective execution and compliance across the organization.
- Demonstrated exceptional management and oversight skills while leading St. Croix District Operations, optimizing processes and resources for efficient operations.
- Strategic Planning and Capital Improvement Program Manager.
- Assisted the Executive Director in the successful implementation of the Agency's Strategic Plan, driving strategic initiatives to achieve long-term goals and enhance overall performance.
- Held direct responsibility for the development and execution of VIPA's Capital Improvement Program, overseeing various infrastructure projects from conception to completion.
- Provided expert oversight and management of the Engineering Department, including the coordination of Architect/Engineer Consultants, bid solicitations, permitting, construction supervision, grant management, federal agency compliance, and project closeout.

August 2014-June 2017 Senior Engineer

- Developed a comprehensive Capital Improvement Program for VIPA's St. Croix District, strategically identifying priority projects to address infrastructure needs and support the region's growth.
- Collaborated with stakeholders to align project objectives with the organization's mission and long-term goals, ensuring efficient allocation of resources.
- Directed and coordinated the activities of the Engineering Department on St. Croix, fostering a cohesive and high-performing team.
- Implemented best practices and standard operating procedures to streamline engineering processes and improve project delivery timelines.
- Provided expert oversight throughout the entire project lifecycle, from conceptualization to project closeout, to ensure adherence to quality standards and regulatory requirements.
- Managed grant applications and compliance with federal agencies' guidelines, securing additional funding for vital infrastructure improvements.

Craven Thompson & Associates, Inc., Fort Lauderdale, Florida September 2007-May 2013 Senior Engineer/Project Manager

Airside at Opa Locka Airport, Miami, FL

- Project Engineer overseeing a 220-acre development at Opa Locka Airport in Opa Locka, Florida.
- Provided civil engineering services, including analyses and design for roadways, taxiways, and utilities.
- Developed construction drawings and specifications, facilitated permitting with local, state, and federal agencies, including the Federal Aviation Administration (FAA), and provided construction administration support.

City of Miami Gardens Livable Neighborhoods Improvements Project, Miami, FL

- Engineer of Record for drainage, lighting, and streetscape improvements in three neighborhoods within the City of Miami Gardens, Florida, covering approximately 222 acres.
- Conducted extensive storm water modeling using AdICPR software and engaged in community involvement presentations.
- Led the development of construction drawings and specifications to enhance the livability and functionality of the neighborhoods.

NW 21st Avenue Improvements (From NW 19th Street to Oakland Park Blvd., Fort Lauderdale, FL

- Engineer of Record responsible for designing and permitting around 2400 linear feet of 8-inch potable water main.
- Performed the drainage design and permitting process, resolving potential conflicts with existing utilities.
- Ensured the successful integration of the proposed potable water and drainage system within the existing infrastructure.

EAC Consulting, Inc.

January 2001- August 2007 Senior Project Manager

Parking Garage #6 - Miami-Dade County Aviation Department, Miami, FL

- Project Engineer overseeing civil and structural engineering design for Park 6 Garage Project.
- Provided civil engineering services, including paving layout, drainage/site design, and utility coordination.
- Designed 4 vehicular space frame truss bridges and 1 pedestrian space frame truss bridge using STAAD Pro.

Port Everglades Security Building, Fort Lauderdale, FL

- Project Engineer responsible for structural design of a two (2) story security facility at Port Everglades.
- Developed construction documents and handled all jurisdictional permitting.

Vizcaya Museum and Farm Village Hurricane and Flood Protection Project, Miami, FL

- Provided hurricane and flood protection retrofit design for Vizcaya facilities, a national historic landmark.
- Involved in the design of operation mechanisms for hurricane shutters and structural aspects.

Greynolds Parks & Recreation Facilities, Miami, FL

- Managed design aspects, including timber and masonry design, for wood cabins, washroom, and kitchen.
- Preserved architectural character using CBS, timber, and rustic stone materials.
- Coordinated with various agencies and provided inspection services for the project.



EAC, Consulting, Inc.

January 2001- August 2007

Senior Project Manager

Miami-Dade Water and Sewer Department- Potable Water and Sanitary Sewer Upgrades, Miami, FL

- Led design of new potable water and sanitary sewer mains and lift stations throughout Miami-Dade County.
- Part of a \$28 Capital Improvement Program (CIP) upgrade under the Consent Decree with EPA and FDEP.

Miami Central High School, Miami, FL

- Evaluated existing utility infrastructure and site configuration for Phase I improvements.
- Designed new academics building, chiller plant, parking lot, and athletics fields.

International College of Policing, Miami, FL

- Provided civil engineering services for site improvements, new water and sanitary sewer connections, and storm water management.
- Assisted in the design and permitting of the new facility within the City of Miami.

Florida International University Football Stadium Expansion (Design-Build), Miami, FL

- Provided civil engineering services for site development, drainage, potable water, fire protection, and sanitary sewer design.
- Ensured compliance with design standards and permitting requirements.

Engineering Material Arresting System (EMAS) - Broward County Aviation Department, Fort Lauderdale, FL

- Designed and developed construction documents for EMAS installation at Fort Lauderdale Hollywood International Airport.
- Modified environmental resource permits for additional impervious cover with storm water management improvements.

PLC Lincoln Loft Condominiums, Miami, FL

- Provided civil engineering services for the design and permitting of a 9-story condominium complex with retail space.
- Salvaged portions of an existing building and constructed a new tower and parking garage.

Biscayne Point Neighborhood Improvements, Miami, FL

- Managed design and permitting of more than 7 miles of roadway and infrastructure improvements in Miami Beach.
- Enhanced streetscapes, upgraded utilities, and implemented traffic calming measures.

Treasure Cove Sanitary and Water Distribution Improvements, Fort Lauderdale, FL

- Led design and permitting of utility infrastructure improvements in the Treasure Cove community.
- Upgraded water distribution system and extended sanitary sewer service.

Metro Zoo Aviary Miami-Dade County Parks & Recreation Department, Miami, FL

- Provided utilities design and construction management for the "Wings of Asia" Aviary at the Metro Zoo.
- Assessed existing pump station capacity and designed drainage and paving for the Aviary entrance.

Miami-Dade Housing Agency Miscellaneous Engineering Services, Miami, FL

- Provided various civil engineering services, including ADA compliance upgrades, site improvements, and drainage enhancements.

Amelia Earhart West Entrance Upgrade, Miami, FL

- Managed the design and construction supervision for a large traffic circle and security booth at the entrance.
- Ensured compliance with ADA criteria and incorporated aesthetic treatments.

Hurricane Restoration and Renovation - Greater Orlando Aviation Authority (GOAA), Orlando, FL

- Coordinated provision of professional civil engineering services for improvements to Terminal Facilities at Orlando International Airport.
- Ensured compliance with safety and code requirements, and managed utilities and infrastructure improvements.

Miami Dade College Science Lab - Phase 2 Improvements, Miami, FL

- Provided civil engineering design for the construction of an 85,000 square foot facility.
- Designed paving, storm water management, utilities, and sanitary pump/lift station.

Miami-Dade Fire Rescue Training Facility, Miami, FL

- Provided civil engineering services for the design and permitting of a state-of-the-art training complex.
- Designed water mains, gravity sewer mains, force mains, stormwater management, and related permitting.

