

ONSITE.BM



SETTING
NEW
STANDARDS



A NEW STANDARD

Onsite Engineering is Bermuda's largest and most diverse engineering design firm. Our vision is to drive Bermuda to the forefront of design and engineering on a global stage, bringing the latest technological advances and international standards to every project we undertake.

Our mission is to provide comprehensive and cost-effective engineering solutions to Bermuda's major projects: from conceptual phase renderings and BIM all the way to quantities and construction coordination services.



WE HAVE DONE THIS FOR DECADES

Our local knowledge, combined with years of expertise in the construction industry, provide clients significant savings with their development.

Our expertise includes Principals in Structural, Civil, Marine, Mechanical and Electrical Engineering design, not to mention our own BIM department for the ultimate interdisciplinary services coordination.

We also promote our relationships with local architects who rival international brands.

Left: Seon Place.
Above: Power House.

The "Onsite Engineering" name came from the founder, Keith Hodgkins, who knows the crucial need for 'on site' interaction.

OUR SERVICES

Onsite Engineering boasts a range of engineering and construction services in-house, benefitting coordination, inter-disciplinary communication and greatly reducing costs. Our divisions are lead by experienced professional engineers with 10-40 years of experience in both Bermuda and around the world.



STRUCTURAL

Using experience and software, we optimize structures to use less materials, exceed strength requirements and meet local supply conditions.

CIVIL / MARINE

From designing roads and retaining walls, to post-panamax cruise-ship docks and large earthworks - we have the capability to meet your project needs.

MECHANICAL

Delivering a complete spectrum of mechanical design in HVAC, plumbing, fire protection and medical-grade facilities.

ELECTRICAL

Our electrical division provides a broad range of expertise, from data centers and telecommunications to power, lighting, and life safety.



CREATING SUCCESS

At Onsite Engineering, we don't just provide designs for you, we employ an array of leading edge tools and software to ensure a successful project.

Building Information Modeling is important to our workflow. Our primary tools include Autodesk Revit, Civil 3D, and a number of finite element programs for structural and mechanical calculations. We promote sustainable design, and with BIM we lead the way with integrating solutions into projects.

OUR SERVICES

Alongside engineering design, Onsite Engineering can provide the full suite of services to get your project from concept to completion. With decades of experience with local government processes and construction management, we ensure your project runs smoothly, efficiently and meets the capabilities of our local construction industry.



BIM

Onsite uses leading edge technology to bring BIM to clients in an interactive setting, providing a holistic approach that syncs your vision between owners, designers and contractors.

CONSULTING

We enjoy close working relationships with many foreign engineering companies, and have completed a number of consultancy projects where overseas specialists have been required.

LOCAL PROCESS

The Bermuda Development process involves three main regulatory stages: Planning, Building Permit and Construction. We offer the coordination services needed to satisfy the Government & Environmental Authorities.

CONTRACT ADMIN

During construction, our team will be there for every phase of project, providing details and ensuring the project is built as planned.



YOUR LOCAL PROFESSIONALS

Engineering and Construction Administration provided by the best on the Island - look no further for the most qualified local professionals. With extensive experience on the largest Bermudian projects alongside world-class design teams, we will prove vital to making your project a success.



ADVICE YOU CAN RELY ON

Welcome to Onsite Engineering Services!

Our success is built upon a solid foundation of experience, expertise, strength, vitality and pride. We care about our projects and we care about Bermuda's future. At Onsite our people continually exchange new ideas and design approaches while providing cost-effective client solutions. Our global connections and professional development keep us on the leading edge at all times.

Onsite is an exciting, fast growing engineering company with years of international experience. We have a drive towards customer satisfaction, invest in training our young engineers, use leading edge technology, and most importantly we have a strong dedication to Bermuda's future.

We love to work on exciting and complex projects and are at our best when all of our disciplines are engaged together, providing a coordinated and holistic approach to everything we do.

We have a total of 8 engineering employees and 2 support staff. 5 of our engineering team are registered professionals both in Bermuda and abroad, and each lead their own field of expertise.

Cutting edge and cost-effective designs that meet or exceed global standards are what we bring to Bermuda. Integrity, customer relationships and effective communications are key to our operation.

Your success is our success, and that's how we run our business.

The Causeway, Bermuda's longest bridge connecting the Airport in St. Davids to the main Island.

**CONNOR BURNS**

DIRECTOR - MECHANICAL ENGINEER (P. ENG)

Licensed in Canada and Bermuda, Connor has over a decade of experience in Mechanical (HVAC & Plumbing) and Civil Engineering projects including large water & wastewater infrastructure, hotels, commercial buildings and renewable energy projects.

**DUSTIN ARCHIBALD**

STRUCTURAL ENGINEER (P. ENG)

Licensed in Canada and Bermuda, Dustin has over 15 years of experience in Structural and Civil Engineering projects including large hotels, marine ports and commercial buildings across Bermuda.

**JOE BORKOWSKI JR**

ELECTRICAL ENGINEER (P. ENG)

Licensed in New York & Bermuda, Joe has over 4,000,000 SF of designed and constructed office space, including roles as project manager and lead Electrical Engineer for high-end clients including Google, Facebook, Microsoft, JP Morgan, Tiger Global among others.

MICHAEL TUCKER

PRINCIPAL ELECTRICAL ENGINEER (C. ENG, MIET)

With 35 years of Professional Engineering experience in Germany, UK, Canada & Bermuda, Michael is a wealth of knowledge in the power, lighting, telecommunications and life safety disciplines, with plenty of Airport construction and operation experience in a number of countries.

**JOHN RUSSELL**

JUNIOR MECHANICAL ENGINEER (EIT)

John has over five years of experience across a wide range of Mechanical Engineering projects and associated disciplines, including commercial, industrial and residential building services work, HVAC and plumbing design.

**JACKSON CHIN**

JUNIOR STRUCTURAL ENGINEER (EIT)

Registered Engineer-in-Training in Canada, Jackson has nearly 3 years of experience in Structural and Civil Engineering projects including large hotels, commercial and residential buildings, and suspended pedestrian bridges with 2 years of prior experience in the Construction Industry.

**VICTORIA GAUNA**

DESIGNER & BIM SPECIALIST

Licensed in Buenos Aires, Victoria has 5 years of experience in Argentina, Portugal, and Bermuda in Architecture and Interior Design, including houses, hotels, condos, commercial buildings, and student residences in the U.K. Victoria spearheads our BIM modeling, rendering and multi-discipline coordination.



**KEITH HODGKINS**

PRINCIPAL STRUCTURAL ENGINEER - DIRECTOR (P. ENG)

Keith has been a Professional Engineer for 15 years and has 25 years experience Consulting Engineering in Bermuda. He specializes in Structural, Civil and Marine Engineering.

**MARK JORDAN**

JUNIOR CIVIL ENGINEER (EIT)

Mark has over four years of experience in the U.K., India and Bermuda on structural bridge design and civil infrastructure projects.

**SAM WATERS**

CIVIL SITE SUPERVISOR & PROJECT MANAGEMENT

Sam has over 16 years of experience managing large scale Civil Engineering & Construction projects throughout the U.K, Caribbean and Bermuda. He specializes in Project and Contract management, for Client and Contractor. Past projects include bridge construction, luxury hotel resorts, water & waste water infrastructure and marine ports.



Berthing dolphin pile construction.

CLIENT: Bermuda Government

TASK: Contractor-side engineering, compliance, design modifications and coordinating foreign labour and equipment.

HERITAGE WHARF

Designed for Post-Panamax (Breakaway class) cruise ships, this project involved four large berthing dolphins using a complex and angled array of 3ft. diameter piles down to 160ft. below sea level. A large rebar cage and concrete cap tops each structure off and an extensive cathodic protection system protects the system from the salty ocean.



Above Left: Finished Facade
Below Left: During construction, showing the concrete elevator cores and light steel frame designed by Onsite.

CLIENT: Sir John Swan
TASK: Structural Design, Local Advisor to Foreign Architect, Construction Management

SEON PLACE

Rising high above Hamilton Harbour at the junction of Reid Street and Front Street is Bermuda's first ten storey office building. This state-of-the-art eco-friendly development offers 107,000 square feet of rentable space and panoramic views of the Paget Shoreline.

Built on the idea that an office environment could exist in harmony with the landscape, every detail from the expansive glass windows, to the granite finishes and a dramatic three-dimensional fountain is strikingly executed.



Above Left: Proposed Beach Club Rendering
Below Left: Proposed Villa Rendering
Opposite Page: Ariel Sands Rendering

CLIENT: Michael Douglas | Ariel Sands Development
TASK: Conceptual modeling, full engineering design
& construction administration.

ARIEL SANDS

Once an active tourist and social destination, Ariel Sands is being revamped into a world-class Hotel Cottage Colony Resort, spearheaded by Michael Douglas.

This resort includes a 5 storey Hotel Building, 27 Villas and a stunning Beach Club. Two restaurants, a beach bar, salon & spa are among its amenities, and it boasts one of Bermuda's best beaches and world famous ocean pools.



OUR TRUE SHOWCASE

Onsite Engineering was tasked with driving the project from its inception: from laying out potential development schemes and providing full rendered visuals for presentation, to the full architectural (Quarterly Architects) and engineering design services.



**Bermuda King Edward VII
Memorial Hospital - Acute
Care Wing**

CLIENT: Paget Health Services | Bermuda Government
TASK: Owner-side construction monitoring for code and contract compliance and including specification writing.

KEMH ACUTE CARE

Construction of a large hospital development consisting of 90 single-patient rooms, a new Emergency Department, Diagnostic Imaging, Ambulatory Care Services, Oncology, Same-Day Surgery, Dialysis, and a Central Utility Plant.

Further work include the old and new building interface project, renovations to the old hospital & demolition projects.



Above Left: Grand Stands
Below Left: 50m Swimming Pool



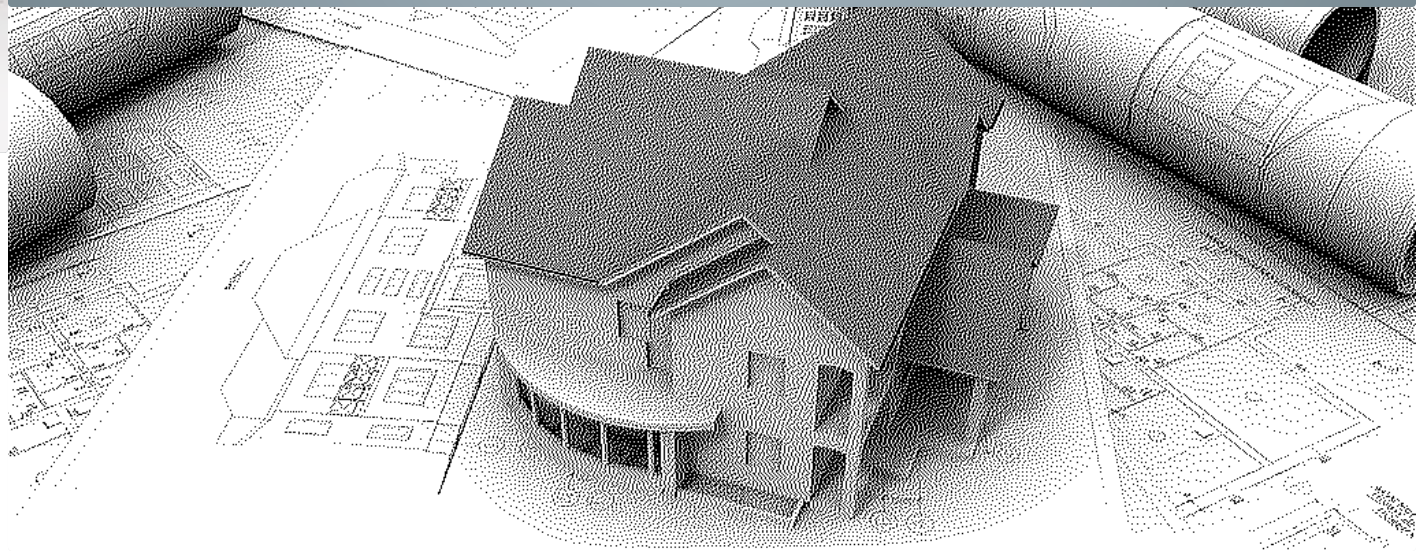
CLIENT: Bermuda National Sports Centre
TASK: Local Engineering firm for construction oversight, including Mechanical, Electrical and Structural design work in partnership with Cannon Design and Stantec Consulting.

NATIONAL SPORTS CENTRE

A complete re-development of Bermuda's National Sports Centre infrastructure, including a 50m pool complex, 4,000-person grandstand, two field hockey pitches, a rugby pitch and large back-of-house and parking facilities.

MAKING EVERY STEP COUNT

Here at Onsite Engineering, we want to make sure every step of the process is well thought out. We're here to help make every dollar count, and ensure your project is a success. Our team and our partners can help you through every step of a development and more!



From 2D to 3D, our capabilities are endless and even include 3D Printing and Drone Services!

GLOBAL DESIGNS, LOCAL SETTING

Many designs, years of construction, and countless millions saved in the process. Our team has a realistic and progressive outlook on the way we pro-actively help both local and foreign developers plan, design and implement their projects here in Bermuda.

Tucker's Point Hotel, Real Estate and Golf Course is one of many examples of projects we have positively affected, saving millions on foreign designs by applying local knowledge

WHAT OUR CLIENTS ARE SAYING



SIR JOHN SWAN · SEON PLACE (141 FRONT STREET)

"Onsite is truly an insightful organization that offers the best value engineering that we've ever experienced"



BERNIE ASBELL · NATIONAL SPORTS CENTRE

"Onsite Engineering really performed for us in completing analysis, remediation design and substantial repair supervision... They were on task, fast, on budget and reliable... [and have since] done other engineering, cost estimating and construction management initiatives for the NSC."



CHRISTINE TROTT · ELBOW BEACH HOTEL & RESIDENCES

"Onsite Engineering are a great team of Bermudian professionals whose work is excellent; their support is just a phone call away... [and] they are available for any advice or information. This is why we use Onsite Engineering. The fact is that they are THE go-to engineering team in Bermuda."

MAKING A DIFFERENCE

Our vision is to drive Bermuda to the forefront of design and engineering on a global stage, bringing the latest technological advances and international standards to every project we undertake - and we're seeing the difference already.

Join us and together we will beat the status quo!

Insulated Concrete Formwork - a new way to build in Bermuda - saving energy and providing a barrier to moisture and sound. Most importantly it speeds up construction time considerably.




KEY POINTS WHEN GOING AHEAD

① Planning ahead before construction is key, saving you time and money. Bermuda is a whole 'nother world when it comes to cost of labour, material and regulations.

② We regularly take on small and large projects, simple and complex - nothing is out of our capability and we strive to meet your needs.

③ Involve the full design team (Engineers & Architects) early on in a project to save headaches and expensive revisions down the road.





Left: Bermuda International
Airport Control Tower
Right: Power House -
Bermuda's first curtain-wall
high-rise (non-structural
outer face).

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