

# CHRIS WILSON

## Senior Engineer

c.wilson@isdbahamas.com

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### Education

University of Western Ontario, London, Ontario, Canada  
Bachelor of Engineering Science, Mechanical Engineering, June 2003

*Key Courses:* Microstructural Analysis, Physical Metallurgy, Mechanical Properties of Materials, Materials Selection, Composite Materials

*Notable Projects:* Designed and built machine to test effectiveness of lubricants and treatments to test samples in repeatable fretting conditions; operated Materials Department's Scanning Electron Microscope

### Activities, Memberships and Accomplishments

CIBSE, <i>Member</i>	06/2011 – Present
Engineering Council UK, <i>Chartered Engineer</i>	06/2011 – Present
NCEES Fundamentals of Engineering Exam, Florida Board of Professional Engineers	4/2005
CIBSE, <i>Graduate Member</i>	4/2006 – 06/2011
Engineering Council UK, <i>Interim Registration</i>	4/2006 – 06/2011
ASHRAE, <i>Associate Member</i>	11/2005 – Present
Bahamas Society of Engineers, <i>Associate Member</i>	9/2003 – 12/2005
Buccaneers Rugby Club	9/2003 – 12/2005
Buccaneers Darts Club	9/2003 – 12/2005
Professional Engineers of Ontario, <i>Student Member</i>	9/2003 – 12/2005

### Computer Skills

*Applications:* AMTECH Specification Expert, Hevacomp, AutoCAD, CHVAC, Carrier AHU Builder, Trane Load Express, Cambridge Materials Selector, IDEAS, Solid Edge, ANSYS, Microsoft Office (Word, Excel, Outlook, PowerPoint)

*Programming Languages:* Java, C++

### Professional Experience

**Island Site Development, Nassau, Bahamas** **5/2013 – Present**  
*Senior Engineer*

**Hoare Lea, Oxford, UK** **8/2010 – 5/2013**  
*Senior Engineer*

**Troup Bywaters + Anders, London, UK**

**1/2008 – 8/2010**

*Senior Engineer*

- Senior engineer responsible for the full design process from brief development with the client to site supervision and handover on a number of laboratory and office refurbishments as well as retail fit-outs.
- Assisted in the preparation of fee bids and quotations.
- Produced feasibility studies based on client's brief for initial costing.
- Liaised with the cost consultant and client to ensure scope could be met within budget.
- Fully developed feasibility study into conceptual design and then design intent drawings.
- Conducted presentations to the client's design review committees.
- Coordinated with architects, project managers, other services, local authorities and trades to ensure all statutory requirements were met.
- Managed team of engineers and CAD draftsman to produce tender information.
- Produced scope of works, designer's risk assessment, plant schedules, AMTECH specification for materials and workmanship, and Trend BMS points schedule and control strategy.
- Attended regular site meetings to monitor site progress in order to produce reports for the client detailing ongoing works and milestones passed.
- Assisted with the development of the commissioning programme in addition to liaising with the commissioning engineers to witness demonstrations ensuring that the client's requirements, as set out in the brief, were met.
- Produced defects lists for the client and revisited site to ensure sign off for practical completion and commencement of defect liability period.
- Mentored more junior members of the design team.
- Helped with invoicing and collection of payments.
- *Notable Projects:*
- Designed services to support an ISO 7 clean room with process cooling, de-ionized water, laboratory gases and process exhaust within limits of an existing live building.
- Designed mechanical infrastructure to service three refurbished university research laboratories with the installation of new steam to LTHW plate heat exchangers, chiller, air handling units and fume extract within an existing live research facility.

**Troup Bywaters + Anders, London, UK**

**2/2006 – 1/2008**

*Intermediate Engineer*

- Collaborated with senior engineers in development of briefs and then applied engineering principles to design practical building services solutions for retail, commercial, educational and research buildings.
- Produced feasibility studies based on client requirements and site surveys.
- Developed conceptual design and undertook calculations for plant selection.
- Designed mechanical services installation and produced drawings, diagrams, schematics and schedules.
- Assisted other design team members to meet programme.
- Researched relevant British Standards, Building Regulations and other standards to ensure design compliance and sound engineering practice.
- Corresponded with manufacturers to detail requirements and develop performance specifications.

- Reviewed designs for energy efficiency or low carbon opportunities.
- Carried out site inspections of installations and produced defects reports.
- Represented senior staff at design progress and site meetings.
- *Notable Projects:*
- Designed services for a large number of retail banking facilities applying standardized criteria thereby ensuring uniform appearance and operation.
- Designed displacement ventilation system for large high-end retail fit-out.
- Designed mechanical services for fit-out of trader's floors and comms rooms for commercial banking support facility.
- Designed mechanical infrastructure for medical imaging (PET/CT and MRI scanners) research facility.

**Mechanical Designs Ltd., Nassau, Bahamas**

**1/2004 – 12/2005**

*Engineer Intern*

- Worked with principal engineer on over 25 projects per year, designing HVAC and plumbing systems for residential and commercial buildings.
- Drafted functional HVAC and plumbing installation drawings to meet design criteria.
- Was responsible for ensuring that company drawings met government building code requirements.
- Observed installation of HVAC and plumbing systems to ensure compliance with design intent and Bahamas Building Code requirements.
- Represented principal engineer at meetings with clients, installers and architects.
- Reconciled design drawings with final construction results in order to prepare installation drawings for record keeping and inspection purposes.
- Streamlined current design procedures and reorganized invoicing process, resulting in improved billing efficiency.
- Prepared mechanical inspection and assessment reports for value estimation and insurance purposes.
- *Notable Projects:*
- Designed several chilled water systems with capacity of over 400kw.
- Re-designed HVAC systems for 3 hospital operating rooms. Accommodated many special considerations specific to facilities of this nature.
- Sized water distribution pumps for two residential subdivisions each containing over 100 lots.

**Atlantic Roofing and Cladding Co., Nassau, Bahamas**

**9/2003 – 12/2003**

*Foreman*

- Supervised team, ranging from five to 15 members, of double-standing-seam steel roof installers for prominent roofing contractor.
- Completed more than 10 installations.
- Programmed and operated roll forming machine according to job requirements.
- Was responsible for quality control of installations.
- Monitored, stocked and administered team supplies.