

ABRAHAM JACOB THUNDATHIL P. ENG

PROFESSIONAL EXPERIENCE	EDUCATION	SELECTED PROJECT EXPERIENCE
<p>2010-Date A & T CONSULTANTS Consultant</p> <p>2010-2012 (external consultant) JAIN AND ASSOCIATES LIMITED Mississauga, ON Consultant</p> <p>2009-2010 JAIN AND ASSOCIATES LIMITED Mississauga, ON Vice President</p> <p>2006-2009 GIFFELS ASSOCIATES LIMITED Toronto, ON Senior Mechanical Engineer</p> <p>2005-2006 VAUGHAN BYRNES ENGINEERING INC. Toronto, ON Principal Mechanical Engineer</p> <p>2003-2005 BELNOR ENGINEERING INC. Toronto, ON Project Manager</p> <p>2000-2002 BADER AL MULLA & CO.WLL Kuwait HVAC Engineer</p> <p>1996-2000 ARABI GROUP Kuwait Project Manager</p> <p>2000-2002 ALMOAYYED AIRCONDITIONING WLL Bahrain HVAC Engineer</p> <p>1989-1993 BLUE STAR LIMITED India Project Engineer – HVAC</p>	<p>UNIVERSITY OF KERALA India Bachelor of Technology – Mechanical Engineering</p> <p>PROFESSIONAL AFFILIATIONS</p> <p>Member</p> <ul style="list-style-type: none"> •Professional Engineers Ontario •American Society of Heating, Refrigeration and Air conditioning Engineers (ASHRAE) •Kuwait Society of Engineers <p>PROFILE</p> <p>Abraham Jacob Thundathil has 21 years of experience in the field of HVAC design and design of building services and project management for a wide range of commercial / institutional and industrial buildings. Jacob's design background includes carrying out design of building services from scratch, carrying out heat load calculations, pressure drop calculations, sizing piping, ducts and equipment, laying out mechanical rooms, carrying out field reviews and site assessment.</p> <p>Energy efficiency is an important feature in Jacob's design and he takes it on more as a passion.</p>	<p>HOTELS / RESTAURANTS</p> <p>Central Park Bangalore, India Design Build Contract Design of the HVAC system of a 4 star hotel with absorption chillers + Project Management</p> <p>Hotel Scenario Manama, Bahrain Design Build Contract Design of the HVAC system of a 3 star hotel + Project Management</p> <p>Middle East Hotel Manama, Bahrain Design Build Contract Design of the HVAC system of a budget hotel + Project Management</p> <p>HOSPITALITY</p> <p>Gulf Air / Bahrain Airport Services Bahrain Design Build Contract Design of the HVAC system of Falcon Lounge (the first class lounge of Gulf Air) + Project Management</p> <p>Hotel Peacock Pune, India Design Build Contract Design of the HVAC system of a High end restaurant + Project Management</p> <p>All Ranks Dining Facility Base Borden, Ontario Design of Mechanical Building Services of Dining Facility serving 2100 meals a day</p> <p>Vickers Dining Facility Base Borden, Ontario Design of Mechanical Building Services of Dining Facility serving 2100 meals a day</p> <p>HIGHRISE OFFICE BUILDINGS</p> <p>Marine and Guinness Tower Vancouver, BC Design of upgrades to HVAC system</p> <p>Scotia Tower Toronto, ON Design of fuel storage for emergency and backup generator</p> <p>Gulf Air Corporate Building Bahrain Design of the HVAC system for phase 2 expansion of Gulf Air corporate building</p> <p>Sunlife Financial Toronto, ON Design of the mist humidification system</p>

<p>DATA CENTRES Amaranth Inc. Toronto, ON Design of HVAC, and FM-200 fire protection system for the data center Design of HVAC, Plumbing and Fire protection for their adjoining office / trading desks</p> <p>Intria Items Inc. Vancouver, BC, Calgary, AB, Winnipeg, MB and Halifax, NS Carried out a gap analysis of their data centers at Vancouver, Calgary, Winnipeg and Halifax with relation to their corporate standards complete with risk assessment report and cost of upgrade</p> <p>National Bank of Canada Toronto, ON Mechanical Design of the retrofit of existing HVAC system in their data center</p> <p>Fundserv Toronto, ON Mechanical Design of the retrofit of existing HVAC system in their data center</p> <p>Regional Municipality of York New Market, ON Mechanical design (HVAC and fire suppression) for their data center expansion</p> <p>Emergency Management Ontario Toronto, ON Design of HVAC and FM-200 Fire suppression system for their data center Design of the HVAC system and fire protection for the adjoining control desks</p> <p>Universal Studios Dubailand Dubai, UAE Design of HVAC and Inergen fire suppression system for their data center</p> <p>PHARMACEUTICAL / HOSPITAL / CLEAN ROOMS</p> <p>Microbix Mississauga, ON Design of HVAC system for federal class 100,000 (ISO class 8) laboratory space with containment</p> <p>Glaxo Limited Nasik India Design the HVAC system for their ampoule filling facility Cleanliness factor = Class 100</p> <p>Serum Institute of India Pune, India Design Build contract Design of HVAC for their ampoule filling facility + Project Management Cleanliness factor = Class 1000</p> <p>Ordinance Factory Dehu Road, Pune, India Design Build contract Design of HVAC system for their operation theater + Project Management</p>	<p>ENTERTAINMENT AND RECREATION Universal Studios - Dubailand Dubai Lead Design Engineer for Mechanical Building services for the entire theme park Overall Project Value – \$2.2 Billion</p> <p>Century Gardens Recreation Centre Brampton, ON Design of HVAC, Fire Protection and Plumbing for recreation centre which consists of ice rinks, swimming pools, Fitness areas, auditorium and meeting rooms.</p> <p>Lindsay Recreation Centre Lindsay, ON Design of HVAC, Fire Protection and Plumbing for recreation centre which consists of ice rinks, swimming pools, fitness areas and meeting rooms.</p> <p>Kids World Bahrain Design Build contract Design of the HVAC system of an entertainment facility for children + project management</p> <p>HEALTH CLUB Adelaide club Toronto, ON Retrofit design of HVAC, Plumbing and Fire protection</p> <p>PROCESS COOLING Miami Pharma Ltd Pune, India Design Build contract Design of process cooling system for their process equipment + Project Management</p> <p>Kesar Petrochemicals Ltd Chiplun, India Design Build contract Design of process cooling system to supply chilled water for their phenol extraction process + Project Management</p> <p>TV STUDIO Educational Media Research Centre (EMRC) University of Pune, Pune, India Design Build contract Design of HVAC system for TV studio and associated equipment rooms, administrative offices and lecture rooms + Project Management</p> <p>Canadore College Centre for Media and Arts North Bay ON Concept design for HVAC, Plumbing and Fire Protection</p> <p>THEATRE Center of Arts de Hearst Hearst, ON Design of the HVAC system, Plumbing and Fire protection (including stage deluge water curtain)</p>	<p>ENERGY AUDIT / BUILDING ASSESSMENT / GAP ANALYSIS Condominium Complex - Heidelberg Village, St Catherines, ON Carried out HVAC load analysis for entire building to determine sizing for replacement chiller, carried out a gap analysis and an energy audit</p> <p>Toronto Water - Ward Island Water Treatment Plant. Toronto, ON Carried out an ASHRAE Level 2 assessment complete with report</p> <p>Brampton Transit - Sandalwood Yard Facility Brampton, ON Carried out an energy audit for the bus storage facility and designed demand ventilation controls which effects savings up to 80%</p> <p>Intria Items Inc. Vancouver, BC, Calgary, AB, Winnipeg, MB and Halifax, NS Carried out a gap analysis of their data centers at Vancouver, Calgary, Winnipeg and Halifax with relation to their corporate standards complete with risk assessment report and cost of upgrade</p> <p>Bombardier Aerospace Toronto, ON Carried out ASHRAE Level 2 assessments for sections of the plants and provided reports</p> <p>POWER GENERATION STATIONS National Thermal Power Corporation Limited Korba, India Handled operation for boiler / turbine control desk for 200 MW and 500 MW plants. Underwent extensive training including simulator training in thermal power plant operation</p> <p>Ministry of Electricity and Water Kuwait In charge of project management and turnkey installation of a 13,500 Ton HVAC project, complete with mechanical piping and plumbing for Sabiya Power Plant</p> <p>STANDBY POWER GENERATION Bell Canada 220 Simcoe Street, Toronto, ON Design of fuel storage, fuel delivery system, exhaust and ventilation for 2MW standby power generator</p> <p>Bell Canada 72 Eglinton Avenue, Toronto, ON Design of fuel storage, fuel delivery system, exhaust, ventilation and mist fire suppression system for 1MW standby power generator</p> <p>Bruce Power (Kinectrics) Tiverton, ON Third party review of design documentation for fire suppression of emergency power diesel generator plant</p>
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