



AFFINITI
CONSTRUCTION INC.

SHEN WU

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PROFESSIONAL PROFILE

A versatile **Construction Director**, Shen Wu is transforming the industry and fast tracking vendor–client communication by using the latest tools and technology to significantly minimise the time and risks associated with large and small construction projects. With a strong foundation in commercial and residential construction, he has now propelled Affiniti Construction forward by using exceptional communication, analytical and technical skills to affect change.

CAREER HISTORY

Founder & Director | Affiniti Construction Inc., Langley BC

A multi-disciplined, privately owned construction brand operating in and around British Columbia for both private and commercial clients, delivering market-leading construction, extension and refurbishments.

RESPONSIBILITIES:

Responsible for setting up and running the business. Roles include marketing, branding, sales, project management, team building, supplier identification and engagement, and back office functions.

- Successfully identified and automated laser scanning for client proposals significantly cutting consumer costs and risks by minimising contractor time on site.
- Created automated pricing and quotation delivery efficiency, removing time, variation and risk from the pricing process and ensuring customer satisfaction.
- Set up automated data sharing, accurately and swiftly sharing data to all parties, thus eliminating errors.
- Successfully engaged with sub-contractors setting up a comprehensive support list covering all technical eventualities and allowing quick response for the client base in any situation.
- Set up agile back office functions, creating a firm foundations for business growth in the future.
- Drove content-led marketing promotions, engaging customers around the region, and growing the customer base and brand.

Mar 2008 – May 2012

Junior Mechanical Designer | Integral Group, Vancouver BC

Integral Group is an award-winning, high-performance and sustainable construction brand in Vancouver with over 200 employees, delivering expertise in Design and Engineering, from breaking ground to completion, across the range of commercial and residential projects.

RESPONSIBILITIES:

Responsible for mechanical and plumbing design from scratch, pro-actively identifying issues and coming up with solutions ensuring successful construction and ongoing operations in high-rise residential blocks, office blocks, hospitals, schools and universities.

- Successfully designed ductwork and asked to take on additional responsibility for piping for a 3 story, 2 wing campus science building.
- Highly complex design work required due to the flexible nature of the space with requirements for highly regulated scientific laboratories.
- Successfully designed the system across the site ensuring the business was invited back to add a temperature control system 2 years later.
- Designed the water system for a \$400m LEED Gold hospital facility. A 2½ year project designing and completing the 4 story construction of an outpatient centre.
- Designed the domestic water, storm, and sanitary water systems from the street to the users with zero failures on client sign off.
- Successfully designed and managed the installation of the highly complex helium cooling system for \$1m MRI machine room and the emergency pressure sensitive quenching system.
- Took responsibility for the critical design of all piping across a 7 story apartment block and townhouse estate.
- Designed piping and ductwork across the estate for the cooling and heating systems.
- The ductwork was buried in the concrete floor, so it was critical it was right first time.
- Took over a team member's design of water-source-heat-pumps and completed build and installation successfully.
- Prepared VE IES model and report for BC Hydro High Performance Building program for a 15 story residential project.
- Successfully designed domestic water, storm and sanitary systems and built the plumbing Revit model for a seven story, 700,000 ft² office building.

Jan 2006 – Feb 2008

Project Engineer | Pease & Sons Inc. Tacoma WA

A family owned, general and mechanical contractor providing high quality construction services to the Federal Government and to the states, cities, counties, school, sewer and water districts of the Pacific Northwest. In addition to meeting the construction needs of public owners, Pease & Sons builds and renovates the facilities of healthcare, manufacturing companies and military facilities.

RESPONSIBILITIES:

Responsible for ensuring the mechanical quality control for 4 LEED certified equivalent 2 story buildings.

- Ensured quality control for the heating and cooling on the project from the foundations to the roof.
- Oversaw mechanical and plumbing installations for storm water, waste water, gas pipes, heating and air handlers.
- Successfully planned and executed commissioning schedules and tests across the site.

EDUCATION

Master of Science in Construction Management, University of Washington, Seattle WA, Jan 2016 – 2017

Thesis – Use of BIM and Prefabrication to Reduce Construction Waste

Bachelor of Science in Mechanical Engineering, Seattle University, Seattle WA, June 2004