

CAREER SUMMARY – Structural and Seismic Design, Management and Software Development

Successfully led, executed and helped implement design projects in reinforced concrete and structural steel, ranging from commercial, residential, institutional and industrial buildings with construction budgets of up to 3M USD.

Acquired strong background in structural engineering from a decade of structural and seismic design experience, with 6+ years of independent practice, consulting, management and helping clients achieve their business goals.

Developing scripts and programs from APIs (including a commercial cloud-based software for SkyCiv Engineering Pty., Australia), as a self-taught programmer, while improving design workflow and minimising errors in data usage towards automation, within structural engineering applications.

KEY SKILLS

- Execution, management and delivery of structural and seismic design projects
- Engineering Software: ETABS, MidasGen, Staad.Pro, Autodesk Robot, SAFE, AutoCAD, Dynamo/Revit
- Programming Languages: C (basic), Javascript, NodeJS, Python, VB Excel, Matlab/Octave, Git
- People Skills: Leadership, motivation, communication and delegation
- Business Skills: Project management, Business Development, proposals, bids and contracts
- Others: Technical report writing, specifications, estimates, preliminary and concept design

PROFESSIONAL AND VOLUNTEER EXPERIENCE

Consulting Engineer – Civil/Structural

Nov. 2013 – present

Self-Employed Professional – *helping companies and people achieve their social and commercial goals through engineering and other technical work*

- Serving and communicating with clients as a consulting engineer, making sure that their needs and requirements are well understood and met
- Executing, leading and delivering structural design projects, including seismic design and retrofitting, of multi-story buildings – residential, commercial, institutional and industrial; concrete and steel
- Signed off a multitude of projects from concept, detailed design and construction
- Completed projects with estimated construction budget of more than 3M USD, as the Engineer-of-Record
- Successfully delivered up to 20% savings in structural steel tonnage

CPD Program Monitor (Volunteer)

Aug. 2017 – Sep. 2018

Philippine Professional Regulation Commission (PRC) – *regulates and supervises the practice of the professionals who constitute the highly skilled manpower of the country*

- Served as program monitor under the Board of Civil Engineering in CPD activities within Metro Manila
- Evaluated seminar and conference proceedings based on their proposed programs, as submitted to the Board and provided feedback for potential CPD credits
- Observed participants' engagement and collated attendance records

Independent Structural Engineering Contractor (remote, from Manila)**Apr. 2014 – Mar. 2016**

Spanbild New Zealand Limited – market leader in the design, manufacture and building of residential, rural and commercial buildings in New Zealand (<http://www.spanbild.com/about.html>)

- Led and worked with a team of local engineers that provided support in the form of outsourced engineering designs for Spanbild (Totalspan) business network across New Zealand
- Executed designs of cold-formed steel buildings following Australian/New Zealand Code and Standards (AS/NZ 4600)
- Communicated across the business network of the company, answering matters on engineering design, costs and turnaround time
- Supported the company in meeting business demands during promotional periods during which, large volume of work comes in

Structural Design Engineer**Oct. 2013 – Dec. 2013 / Jan. 2013 – Sep. 2013**

Tandem Engineering Consultancy / Freelance – Tandem Engineering is an established structural engineering consultancy firm in Makati, Philippines since 1996 (<http://www.tandem.com.ph/aboutustec.html>)

- Built an analytical model for analysis and design of a 25-storey reinforced concrete building using ETABS
- Executed structural steel design and details for a multi-level indoor theme park (fit-out construction)
- Completed structural design and details of commercial billboard and windbreak structures
- Coordinated with CAD professionals and managed design and drawing productions

Graduate – Assistant Structural Engineer**Jul. 2010 – Oct. 2012**

Hyder Consulting (now Arcadis) – a multi-national advisory and design consultancy with particular specialisation in the transport, property, utilities and environmental sectors (<https://www.arcadis.com>)

- Contributed to the company's projects overseas through the Structures Department
- Executed technical design work which involved commercial, institutional and industrial buildings using structural steel and reinforced concrete under BSi, AISC and ACI design standards
- Worked on other civil structure design projects including a temporary bridge, underpass structures (troughs, retaining walls and tunnels) and concrete storage tanks
- Developed 3D structural models using STAAD.Pro and ETABS for analysis and design
- Collaborated with the Bridges Department for the design of abutments and pier pile caps
- Prepared load calculations, design details and reports including other technical documents
- Coordinated with the CAD team from the preparation of mark-ups toward the production of final design drawings and details

EDUCATION**Bachelor of Science in Civil Engineering, Cum Laude****Jun. 2005 – Aug. 2009**

FEU – Institute of Technology (formerly FEU – East Asia College), Manila, Philippines

PROFESSIONAL ORGANISATIONS

The Institution of Engineers Australia – *Member, Professional Engineer*

Association of Structural Engineers of the Philippines – *Member, Regular*

Philippine Institute of Civil Engineers – *Member, Regular*

Registered Civil Engineer – PRC, *Awarded Top 9 for Licensure Exam, May 2010*