

Franz Clarence Casaclang, RCE

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<https://fcasaclang.github.io/portfolio/>



EDUCATION

Tertiary Education:

Polytechnic University of the Philippines – Sta. Mesa, Manila

- Bachelor of Science in Civil Engineering

Secondary Education:

De La Salle University - Dasmariñas, Cavite

SKILLS

- Knowledgeable in software including **MIDAS Gen, Staad Pro, RAM Connect, AutoCAD, Civil 3D, Google Sketchup, MathCAD, Bluebeam, Microsoft Office, Revit**

EXPERIENCE

Angel Lazaro and Associates International, Junior Civil Engineer; February 2024 - Present

- Performed structural analysis and produced detailed engineering design of Low to Mid-rise Buildings such as Structural Retrofit Plans, Design and Detailing plans, As-Found & As-Built Plans in accordance with NSCP, ACI, and AISC Standards
- Conducted on-site inspections including structural member measurements, and crack mapping to assess structural integrity of the structure
- Onsite verification of existing structural members to ensure consistency using the structure's as-built plans
- Supervised testing such as concrete coring, UPV and rebar scanning, site works, and coordinated closely with the project manager and client during an on-site inspection in Mindanao
- Prepared detailed documentation reports, presentations and write ups for client submittals including powerpoint presentations using Microsoft Office
- Trained, guided, and disseminated tasks to on-the-job trainees as one of their facilitators providing them an elaborate experience as an engineer in the industry
- Presented project overview, methodologies, and proposed coordination plans to stakeholders, local government units (LGUs) and world bank representatives regarding the construction phase of the project
- Created detailed engineering design of trusses including steel and timber truss designs, retrofit design, drawings, and model using MIDAS Gen & STAAD
- Created detailed engineering design of beams and columns, including retrofit design, rebar design, carbon fiber reinforcement polymer application on low to mid-rise buildings
- Utilized MIDAS Gen and STAAD Foundation in foundation design retrofit design including isolated, combined, and mat footing analysis
- Designed steel staircases to provide access to essential facilities through application of Dynamic analysis
- Created connection design of steel structures including welds, bolts, anchors, and pedestal design using RAM Connect and HILTI Profis
- Designed new roofing details following IFRC specifications that comply with Eurocodes 1, 3 and 5
- Coordinated closely with architects for accurate and consistent CAD drawings, sheet format and schedules

International Project Management Association (IPMA Philippines), Intern; July 2022 – Sept 2023

LICENSE

- Registered Civil Engineer – *April 2023 Board Exam*

CERTIFICATIONS

- MIDAS IT Philippines: Comprehensive Training Workshop for MIDAS Civil – November 2024
- HILTI: Performance Evaluation of Post-Installed Anchor Systems – April 2024
- MIDAS IT Philippines: Perspectives and Practices: A Spectrum of Structural Design Solutions – April 2024
- Autodesk Certified Professional Revit for Structural Design Exam Prep – February 2024
- Autodesk Certified Professional Civil 3D for Infrastructure Design Exam Prep – January 2024
- University of the Philippines - Diliman: Structural Health Monitoring for Buildings – November 2022
- Autodesk Certified Professional: AutoCAD Design & Drafting Exam Prep – November 2022

ORGANIZATIONS

- Philippine Institute of Civil Engineers (PICE)
- Philippine Institute of Civil Engineers - PUP Student Chapter

PERSONAL PROJECTS & ACHIEVEMENTS

Proposed Two-storey Residential Building - Taguig City, Metro Manila; (*April 2025 – May 2025*)

- Conducted structural analysis and created the mathematical model of a residential building using MIDAS Gen and monitoring strict compliance to the standards provided by NSCP and ACI

Speaker / Presentor - Pasig City, Metro Manila; (*August 2024*)

- Presented the project details in five (5) institutions and answered queries of the four (4) World Bank Representatives, Local Government Units (LGUs) of Pasig City

SKILLS AND INTERESTS

Languages: Tagalog (native), English (Fluent), French (Beginner), Japanese (Beginner)

Volunteering: Media Partner that took photographs and shot montages of the event (DBTK Anniversary Event)

Interests: Formulating business ideas, Trading cryptocurrencies and learning more about the blockchain, Cooking and hosting for guests, Took participation in gatherings such as Perfume testing, Sports Car and Fitness Enthusiast