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## SUMMARY

I am a structural engineer with extensive experience in design and overseeing construction of large-scale infrastructure projects, including buildings, renewable energy facilities, oil and gas infrastructure, water treatment plants, and transportation systems. Proficient in structural modeling, finite element analysis, and seismic design using advanced software. Demonstrated expertise in load calculations, material selection, and structural optimization for complex projects. Adept at coordinating multidisciplinary teams, adhering to regulatory requirements, and implementing innovative engineering solutions to enhance structural integrity and sustainability across various sectors.

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## EDUCATION AND PROFESSIONAL QUALIFICATION

**Member**, American Society of Civil Engineers  
**Member**, Structural Engineer's Institute (SEI) - ASCE  
Member No.12489050  
Philippines

**Civil Engineer**  
Professional Regulatory Commission  
Reg. No.0144396  
Philippines

**Bachelor of Science in Civil Engineering**  
ROMBLON STATE UNIVERSITY  
Odiongan, Romblon, Region IV-B  
Philippines  
(2009-2014)

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## CAREER DETAILS

**Sr. Structural Engineer**  
**Arcadis Consulting Middle East Ltd.**  
**GEC Resilience – Water Division**  
**(November 2024 - Present)**

### Major Projects Undertaken (USA Water Resilience Projects)

- *North/West Battery Park Resiliency Project*
- *Dallas Floodway Cadillac Heights Levee Project*
- *Windsor Woods, Princess Anne Plaza, and The Lakes Drainage Improvement Project*
- *Avondale Shipyard Floodwall Project*

### Responsibilities:

- Lead the structural design and analysis of all water-related structures within the project.
- Prepare detailed structural drawings, calculations using EM codes, ACI 318, ACI 350, AISC 360 and AASHTO.
- Review and approve drawings, plans, and reports developed by junior engineers or BIM teams.
- Collaborate closely with other disciplines and clients throughout the project cycle.
- Oversee the assignment of tasks to Engineers and BIM Modelers.
- Provide mentorship and technical guidance to junior engineers.
- Participating in budgeting and value engineering reviews.
- Coordinate with project managers for deliverables, deadlines and client communications.

**Structural Engineer**  
**Sta. Clara International Corporation**  
**Engineering Department**  
**(June 2022-Present)**

**Major Projects Undertaken (most recent)**

- *San Juan 56ML Water Reservoir*
- *MRT 7 STP Project*
- *66.5 MLD Desalination Plant Project-Iloilo*
- *Isla Wind Turbine Generator Access Bridge Road Project*
- *Western Luzon 500kv Backbone Transmission Line Project*
- *Zamboanga Radar Facilities*
- *Capaz Housing Project*
- *Yokohama Tire Philippines Expansion Project*

**Responsibilities:**

- Assume the role of team leader for all design deliverables of the specified project assignment.
- Responsible for structural design and analysis for all types of structures.
- Responsible in preparation of all structural design reports, design calculations related to different structures.
- Responsible for the development of all design drawings and models. Use AutoCAD and other drafting software programs to create 2D design documents and 3D models for individual components and overall structural plans according to client needs and project requirements for deliverables.
- Collaborates with fellow Engineers and Designers to streamline the production of civil design and drawing deliverables.
- Developing finite element models and post-processing of the analysis results through automation.
- Produce contract documents including plans, technical specifications, and quantities.
- Provide technical advice on safe design and during the construction phase of the project.
- Other duties as assigned.

**Structural Engineer**  
**JGC Philippines Inc.**  
**Building Department-Engineering Division**  
**(January 2022 – June 2022)**

**Major Projects Undertaken**

**EPC Projects Oil and Gas (Singapore)**

- *Mettallocone Catalyst Expansion Project (MET-X)*
- *INFINIUM Singapore Emergency Power Back up System (Stage 4)*

**Responsibilities:**

- Draft conceptual plans/calculation and comment during basic engineering phase.
- Generally, supplies design drawing information and instructions to subordinate engineers/CAD Operators ensuring technical completeness and clearness of data for effective workflow.
- Checks own design output and review design drawing information and instruction to subordinate engineers/CAD Operators ensuring technical completeness and clearness of data for effective workflow.
- Coordinates with other Engineers and Designers to facilitate production of civil design and drawing outputs.

**Structural Engineer**  
**TCGI Engineers**  
**Structural Section – Engineering Division**  
**(July 2021-January 2022)**

**Major Projects Undertaken**

**Design Projects (Philippines)**

- *CCLEX (Cebu Cordova Link Expressway)*
- *SLEX Phase II (Toll Road 4)*
- *Manila Naval Hospital*

Responsibilities:

- Perform detailed structural engineering design and analysis on the concept and system formulated to specific structure.
- Preparation and checking of design drawings.

**Structural Engineer**

**Sta. Clara International Corporation**

**Engineering Section - Project Management Team**

**(June 2016-July 2021)**

**Major Projects Undertaken**

- *Ilijan LNG Re Gas Terminal*
- *Subic Freeport Express Way (SFEX)*
- *Siguil Hydro Power Plant*
- *La Mesa Water Treatment Plant Rehabilitation Project*

Responsibilities:

- Lead engineering section for all technical design deliverables and support to construction team.
- Research design options and document findings for team.
- Review shop drawings for structural components to ensure compliance with design specifications.
- Identify and address any construction-related issues.
- Provide clarifications and revisions as needed.
- Reviewing and revising construction models based on needs, including analyzing configurations of the basic components of a structure.
- Evaluate proposed changes to the structural design and provide recommendations.
- Monitor construction activities to ensure adherence to structural design.
- Calculating cost impacts design changes and schedule implications.

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**TECHNICAL SKILLS**

**STRUCTURAL DESIGN**

- Structural analysis
- Steel Design and Concrete Design
- Forensic Engineering and Retrofitting
- Seismic design of concrete and steel structure
- Foundation Engineering (Deep and Shallow Foundation)
- Structural Detailing of steel and concrete structure

**DESIGN CODES**

- NSCP
- ASCE-7
- ACI
- AISC
- EM Manuals
- AASHTO
- Euro Code 2

**SOFTWARE**

- MS Office
- Mathcad
- Bluebeam Revu
- Staad Pro
- IDEA STATICA
- ETABS
- CSI SAFE
- ADAPT-PT
- AUTODESK Revit Structure
- AUTOCAD

**SOFT SKILLS**

- Leadership
- Communication
- Collaboration
- Problem Solving
- Critical Thinking
- Time Management
- Mentorship & Coaching
- Negotiation & Persuasion
- Adaptability
- Ethical Judgment

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**TRAINING AND SEMINARS**

- Foundation Engineering (Deep and Shallow Foundation) (2018) by RBRA Structural Engineers
  - Design of Concrete Structure in the high seismic region (SMRF and Dual System) (2019) by RBRA Structural Engineers
  - Steel Design using LRFD Method (2019) by RBRA Structural Engineers
  - Post-earthquake assessment of Buildings (2019) by RBRA Structural Engineers
  - Autodesk Revit Structure (2024) by XSTRUCTURES
  - Forensic engineering and Retrofitting of Pre-Code Buildings (2024) by RBRA Structural Engineers
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I hereby certify that the above information is true and accurate to the best of my knowledge.



**JOHN ROM M. CABADONGGA**

APPLICANT