

FAJAR AFRIANSHAH

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Professional Experience

PT Sibambo Karya Internasional – Bogor, Indonesia

Jun 2024 – Current

Structural Engineer

- Design and analyze structures for various projects of residential buildings
- Perform structural calculations, simulations, and finite element analysis to determine the strength and stability of structures
- Ensure compliance with building codes, regulations, and industry standards
- collaborate with architects, contractors, and other team members to develop effective engineering solutions
- prepare technical reports, drawings, and specifications for clients and regulatory authorities
- conduct site visits and inspections to assess structural integrity and identify any potential issues

PT Delapan Pilar Internasional – Banda Aceh, Indonesia

Mar 2023 – Feb 2024

Structural Engineer

- Analyze and design building structures, including beams, columns, walls, and floors, to meet safety and durability standards.
- Collaborate with architects and other project teams to ensure alignment between architectural design and structure.
- Selecting the appropriate materials for structures, including concrete, steel, and other substances.
- Monitoring the execution of work to ensure that structures are built in accordance with the plans and specifications.
- Compile a report on structural analysis, calculation results, and recommendations related to structural work.

PT Sabata Karya Kencana – Banda Aceh, Indonesia

May 2022 – Feb 2023

Quantity Surveyor

- Assigned as a quantity surveyor on construction project of “Rehabilitasi Rumah Dinas Kejati Aceh di Lampineung”.
- Conducting an initial field survey prior to project implementation to understand the site conditions and requirements.
- Re-measuring and evaluating the work volume calculations based on shop drawings, field technical data, and technical specifications.
- Managing resource requirements such as materials, equipment, and funding for project execution.
- Evaluating the work schedule to ensure that the project is completed within the specified timeframe.
- Inspecting and recalculating the work volume changes that occur in the field.
- Preparing data related to the submission of work billing claims.

Pioneer Architect – Banda Aceh, Indonesia

Aug 2021 – Jul 2022

Freelance Drafter

- Producing detailed architectural drawings based on the architect's design.
- Producing detailed structural and electrical plumbing drawings in accordance with the engineer's design.
- Actively coordinating and consulting with architect and engineer to ensure that the drawings align with the design.

Education

Universitas Abulyatama – Aceh Besar, Indonesia

Sep 2016 – Jul 2022

Bachelor of Engineering, Civil Engineering, GPA 3.74/4.00

- **Thesis:** An Assessment of Building Structure Behavior in Light of the Latest Design Code.
- **Area of interest:** Structural engineering and geotechnical engineering.

Professional Certificate

- **Young Building Engineering Expert** – Indonesian Professional Certification Authority, 2024.

Additional Information

- **Soft Skills:** Team Work, Problem Solving, Communication, and Critical Thinking.
- **Technical Skills:** Structural Analysis, Construction Management, Construction Estimation, Building Information Modelling, and Structural and Architectural Drafting.
- **Software Mastering:** SAP2000, ETABS, AutoCAD, AutoCAD Civil 3D, Sketchup, Revit, Tekla Structure, and Prota Structure.
- **Languages:** Indonesian (Native), English (Conversational).
- **Training (2024):** Design of Earthquake-Resistant Buildings Using Base Isolators by Sipilpedia Academy.
- **Training (2023):** Revit 2024: Essential Training for Architecture by LinkedIn Learning.
- **Training (2023):** Modeling and Detailing of Steel Structures Using Tekla Structures by Sipilpedia Academy.

- **Training** (2022): Revit for Modelling Water Buildings by Sipilpedia Academy.
- **Training** (2021): Revit Complete Project (Arsitektur, Struktur, MEP) by Sipilpedia Academy.
- **Training** (2020): Independent Distance Learning Training in the Construction Field Equivalent to 56 Lesson Hours for the Position of Building Construction Supervisor Expert by Indonesia Ministry of Public Works and Housing.