Zoe Gabriel Alessandro W. Azarcon

(+63) 9762085449 zwazarcon@gmail.com

City of Imus, Cavite, Philippines

PROFILE

I have a strong ability to enhance the efficiency of a team or department I join through my critical thinking, problem-solving skills, and positive attitude. With good foundation in Thermal Fluid Systems, Machine Design, and Manufacturing, I have honed my skills in Computer-Aided Engineering (CAE) and Computer-Aided Design (CAD). Particularly, I am familiar with tools like ANSYS, Altair HyperWorks, Autodesk Fusion 360 and MATLAB. Looking to utilize my knowledge and skills to contribute and to further develop them.

EDUCATION

University of the Philippines – Diliman

Metro Manila, Philippines

Bachelor of Science in Mechanical Engineering

Graduated Jul 2025

EXPERIENCE

National Kaohsiung University of Science and Technology

Kaohsiung, Taiwan

Structural Design and Analysis Laboratory Intern (On-Site)

Aug 2025 – Dec 2025

- Took training regarding Finite Element Analysis (FEA) using Altair HyperMesh and SimLab.
- Performed cornering fatigue test simulation for lightweight wheel design (Linear Static).
- Analyzed static stiffness and buckling strength of a lightweight front lower control arm design (Non-Linear Static and Linear Static).
- Introduced to composites modelling using Altair.

Principia Engineering and Technology Center

Benguet, Philippines

Modelling and Simulation Engineering Intern (Remote)

Jun 2024 – Sep 2024

- Took training regarding Finite Element Analysis (FEA) using ANSYS Static Structural and Steady-State Thermal.
- Performed static structural analysis (FEA) on stacker boom components such as suspension links, connecting plates, and hinge.

UNDERGRADUATE RESEARCH and PROJECTS

Effects of Air Maldistribution on Finned-Tube Evaporator Performance (Thesis)

- Modified an existing finned-tube evaporator simulator to analyze refrigerant circuitry performance under non-uniform airflow.

Metered Pig Feeding Distribution System (Capstone)

- Designed and fabricated an automatic feed dispenser component with a metering feature, and a distribution storage/hopper component with 25kg capacity.

Attack on Titan Sword Analysis

- Performed Explicit Dynamics Analysis (ANSYS) to an anime inspired sword blade to compare performance of two blade materials as it strikes a titan nape.

Adjustable Wrench Modelling

- Replicated an adjustable wrench 3D model (Fusion 360) making use of joints to simulate proper assembly.

LEGO Car Cam Design

- Designed a 3D printed cam used as an input for steering a LEGO car that must travel in a loop.

ADDITIONAL INFORMATION

- PRC licensed Mechanical Engineer (February 2026)
- Proficient with MS Excel and other MS Office Apps.
- Familiar with MATLAB and has coding experience with Java and C++.
- Familiar with FDM 3D printing.
- Able to communicate in English and Filipino.

LINKS

LinkedIn- https://www.linkedin.com/in/zoe-azarcon-016651263/