Patricia Eunice A. Agdan

Licensed Mechanical Engineer
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A fresh graduate of Mechanical Engineering with a strong foundation in engineering principles such as thermodynamics, fluid mechanics, and machine design. As a consistent scholar from the Philippines, academic performance is well-maintained while also gaining leadership experience from high school to college. Inclined to math and problem-solving, strengths are making calculations and technical analysis. Philippine Regulation Commission (PRC) registered mechanical engineer.

EXPERIENCE:

Maintenance Engineer Trainee | *Aug 2022 - Dec 2022*
Mitsubishi Hitachi Power Systems

- Gained hands-on experience in the maintenance of power and industrial boilers, contributing to projects.
- Conducted preventive maintenance of machinery within the production area to ensure optimal performance, reduce downtime, and prolong equipment lifespan.
- Drafted technical drawings for maintenance procedures and equipment modifications.
- Worked closely with senior engineers in monitoring system efficiency and recommending improvements.
- Managed task in CAD modeling for optimizing material selection to enhance operational outcome and efficiency.

Research and Development | *Jan 2022 - Jan 2023*
Design and Development of Slaughterhouse Wastewater Treatment System

- Designed and developed a wastewater treatment system for a slaughterhouse focusing on improving discharge quality and sought the possibility of recycling water.
- Conducted water analysis tests to assess wastewater quality and determine appropriate treatment methods.
- Collaborated with a team to optimize the design for sustainability and compliance with environmental standards.
- Played a key role in factory layout redesign which led to reduced manufacturing costs.
- Conducted type of analysis using analytical tools to inform design choices.
- Instrumental in equipment maintenance ensuring quality safety and regulatory compliance across all mechanical operations.

EDUCATION

Bachelor of Science in Mechanical Engineering | *Aug 2019 - Aug 2024*
Batangas State University - The National Engineering University

- Participated in leadership activities and team projects, enhancing communication and collaboration skills.

Science, Technology, Engineering, and Mathematics (STEM) | *June 2013 - April 2019*
Sta. Teresa College - Junior - Senior High School (With Honors)

- Served as Supreme Student Council 4th Year Level Representative, actively participating in student leadership, organizing events, and representing the concerns of fellow students.

SKILLS

- Mathematical Analysis and Problem-Solving
- Proficiency in Microsoft Office Suite
- Technical report writing and documentation
- Strong Leadership Skills
- Research and development
- Basic Knowledge in AutoCAD
- Safety Protocol Development
- Troubleshooting and Problem Resolution

ORGANIZATION

Philippines Society of Mechanical Engineers (PSME)
Batangas Chapter | *Member*

SEMINARS ATTENDED

12th - 13th PSME Student National Conference
2022 & 2023 | *Participant*

Design, Installation, and Testing of Elevators and Escalators
2022 | *Participant*

I hereby certify that the information above is true and correct to the best of my knowledge and belief.

PATRICIA EUNICE A. AGDAN