

January 7, 2025

**DR. PROSE IVY G. YEPES**

University President

**Visayas State University**

Baybay City, Leyte

Thru: **Engr. Vic Angelo L. Impas**

Department Head, Department of Mechanical Engineering

Visayas State University

Sir:

Greetings of peace!

I am duly informed that the application for the position of **College Instructor** under the **Department of Mechanical Engineering** is currently ongoing. As a graduate of MS Mechanical Engineering seeking to enter the academic field and contribute actively to Research and Development (R&D), I am writing this letter to formally express my interest in this position.

I firmly believe that my qualifications, supported by adequate experience and training, best align well with the requirements of this role. I am eager to contribute to the department's goals and support the growth of innovation and competitiveness within the engineering sector. Specifically:

- I completed a specialized training for Mold Assembly using NX Software at Department of Science and Technology – Metals Industry Research and Development Center. This hands-on experience allowed me to deepen my understanding of the software and refine my technical abilities.
- Over the past two years of my graduate studies, I have gained rigorous hands-on experience in physico-chemical characterization, particularly with oil and coal derived from biomass. This includes determining heating values using the Oxygen Bomb Calorimeter (ASTM D240), measuring waste oil viscosity from the shipping industry using a Saybolt Viscometer, and assessing flash and fire points with the Cleveland Open Cup apparatus. Such immersion have deepened my understanding about fuel thermophysical properties and enhanced my technical skills in laboratory testing.
- My exposure to both the engineering industry and the academe has allowed me to gain an in-depth understanding of the systems inherent to research and development (R&D) such as the process of academic publishing, patent search to ensure the novelty and conduct comprehensive comparison of existing mechanical designs, and organizational management required by R&D projects.

Last August 2024, thanks to the support of DOST-SEI ERDT, I had the rare opportunity to participate at the 10th International Conference of Engineering Waste and Biomass Valorisation at Sendai, Japan as the sole Filipino contingent presenting the published work on "Characterization of the Thermo-physical Properties of Refuse-derived Fuels from Face

Masks". With the understanding that technical conferences are valuable gatherings that continue to uphold tenets of innovation, I have become aware of the technical, logistical, and cognitive demands brought forth by R&D projects, ranging from written reports, material procurement, collaborative design thinking process, and more.

- Furthermore, my technical writing and communication skills are best reflected in various written outputs which include drafting manuscripts, presentations at national and international academic conferences, and technical proficiency of LaTeX for submission of abstracts and technical reports. In addition, my experience as a teaching assistant has allowed me to establish linkages with my mentors, technical experts, and other peers. Such opportunity capacitated me to share my expertise with undergraduate students, reinforcing my commitment to academic and professional growth.

As a DOST-SEI RA 7687 and ERDT scholar, I am committed to the values instilled by the Patriot Scholar Program, which emphasizes contributing to nation-building through our professional strengths. With the recent achievement of passing the Mechanical Engineering Licensure Examination, I am enthusiastic about starting my professional career at **Visayas State University**, where I can leverage my background to support the center's goals while furthering my personal and professional development.

Enclosed is a portfolio detailing my research experiences and technical engagements, which I hope will provide insight into my suitability for this role. I welcome the opportunity to discuss in more detail how my skills and experiences align with the objectives of **Visayas State University**. I can be reached at +639513069237 or via email at [elaizajanesubere@gmail.com](mailto:elaizajanesubere@gmail.com).

With sincerest gratitude,



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