

KRIZ KENSHIN EMERSON D. TAM

Electrical Engineering Student | Renewable Energy Advocate

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SUMMARY

Bachelor of Science in Electrical Engineering student at Mapúa University with a strong academic record and multiple scholarships. Initiative-driven Student Council President with 3 years of experience leading high-impact campus initiatives, managing projects, and delivering strategic outcomes. Passionate about renewable energy, with strengths in project coordination, regulatory compliance, leadership, and cross-functional collaboration.

EDUCATION

Bachelor of Science in Electrical Engineering **August 2022 - Present**

Mapua University - Intramuros

- DOST-SEI Undergraduate Scholar; PHILDEV Science and Engineering Scholar (PSES);

Don Tomas Mapua Scholarship (DTMS) Scholar

Science, Technology, Engineering, and Mathematics **October 2020 - July 2022**

Bataan National High School - Senior High School

- With Highest Honors. General Average: 98.82

Science, Technology, and Engineering **June 2017 - March 2020**

Bataan National High School

- With High Honors. General Average: 96

QUALIFICATION AND SKILLS

- **Engineering Tools**: ETAP, PSS®E, AutoCAD, DIALux, FluidSIM
- **Methods**: Technical research, project management, technical writing
- **Digital Skills:** Systems programming, data analysis
- **Core Strengths:** Strategic planning, policy analysis, public speaking, executive reporting, teamwork, organizational development, project coordination, accountability

WORKSHOPS ATTENDED

Power Unlocked: The ACEN Open House Experience | ACEN **June 30, 2026**

- Toured corporate headquarters to analyze regional power infrastructure and clean energy integration.
- Engaged with executives regarding engineering career tracks and renewable energy project management.

PHILDEV-SHELL Leadership Camp | PHILDEV - Shell **August 2024 & August 2025**

- Completed the LEADS framework focusing on accountability and collaborative problem-solving.
- Trained in executive presence, high-impact resume writing, and energy-sector interview strategies.
- Interacted with corporate executives and top engineering scholars to map industry career paths.

RESEARCH & THESIS

Development of Mangifera Indica-Based Combustible Energy Pellets with Waste Cooking Oil Binder | Co-Researcher **February 2025 - Present**

- Developing solid combustible pellets utilizing mango waste and waste cooking oil binders.
- Programming an efficiency analysis model in MATLAB to calculate pellet thermal performance.
- Comparing computational models with DOST laboratory testing using a two-sample t-test.
- Ratio Optimization: Evaluating 23 mixing ratios of biomass, oil, and water to maximize energy output

Commercial Illumination Design: Resort, Mall, and Water Park Complex | Co-Designer **August 2025**

- Engineered comprehensive interior and exterior 3D lighting layouts via DIALux
- Evaluated 89 distinct architectural spaces to verify target parameters against IES, LEED, and OSHA standards

LEADERSHIP EXPERIENCE

Council of Presidents - Mapua University **Nov 2025 - Present**

Commissioner on Regulations and Compliance

- Policy Formulation: Draft and propose legislative measures and policy frameworks for the student body and University Student Government (USG).
- Regulatory Compliance: Review council operations, initiatives, and event campaigns to ensure strict adherence to university bylaws and safety protocols.

School of Electrical, Electronics, and Computer Engineering - Student Council **October 2024 - Present**

President (November 2025 - Present)

- Direct all council operations, steering committees and strategic initiatives toward student development goals.
- Lead the planning, budgeting, and execution of major campus events, academic exhibitions, and seminars.

Internal Vice President (October 2024 - November 2025)

- Managed daily internal operations, ensuring cross-committee synergy and assuming executive leadership in the President's absence.
- Oversaw internal allocation of assets, documentation, and volunteer manpower for efficient event execution.

ACADEMIC ACHIEVEMENTS

Rank 8 of the Batch 2022 Electrical Engineering Students - 3Q AY2024-2025 **May 2025**

School of Electrical, Electronics, and Computer Engineering Student Council - Mapua University

Rank 9 of the Batch 2022 Electrical Engineering Students - 4Q AY2023-2024 **August 2024**

Institute of Integrated Electrical Engineers - Mapua University

Rank 10 of the Batch 2022 Electrical Engineering Students - 3Q AY2023-2024 **July 2024**

Institute of Integrated Electrical Engineers - Mapua University

Mayor's Award of Academic Excellence and Leadership Awardee, With Highest honors **July 2022**

City of Balanga LGU

WORK EXPERIENCE

School of Mechanical, Manufacturing, and Energy Engineering - Mapua University **July 2025 - Present**

Student Assistant

- Execute day-to-day clerical functions, manage departmental documentation and faculty correspondence.
- Maintain organized academic records, address student inquiries, and support efficient office workflows.

CHARACTER REFERENCES

- **Arnold C. Paglinawan Ph.D**
  Dean, School of EECE
  Mapua University
  apaglinawan@mapua.edu.ph
- **Engr. Analyn N. Yumang**
  Faculty Adviser
  Mapua University
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- **Engr. Glenn V. Magwili**
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