

Juan Glicerio C. Manlapaz

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PROFESSIONAL PROFILE

- A licensed electronics engineer (ECE and electronics technician (ECT) aspiring to become an academic professional and researcher focused on power electronics, energy engineering with goals of pursuing graduate school. Highly versatile and self motivated individual with technical skills ranging from programming to simulation.

EDUCATION

Ateneo de Manila University

August 2018 – December 2022

Bachelor of Science in Electronics Engineering, Minor in Data Science and Analytics

GPA: 3.63/4.00

- Undergraduate Thesis: Optimization and Simulation of Distributed Generation: A Case Study on the PLDT-CTC Building of Ateneo de Manila University
- Relevant Coursework: Research Methods, Energy Generation and Storage, Circuits, Electronics, Technopreneurship, Introduction to Programming and Databases, Data Visualization

PUBLICATIONS

- [1] **J.G. Manlapaz**, D. Reyes, C. P. Buensuceso, R. A. Peña, R. Parocha, and E. Q. Macabebe, "Optimization and simulation of a grid-connected PV system using load forecasting methods: A case study of a university building", unpublished
- [2] C. P. L. Buensuceso, **J. G. C. Manlapaz**, D. M. Reyes, R. A. S. Peña, R. C. Parocha and E. Q. B. Macabebe, "Energy Management for Grid- Tied PV Systems Using Particle Swarm Optimization," *2022 IEEE International Conference on Power and Energy (PECon)*, 2022, pp. 105-110, doi: 10.1109/PECon54459.2022.9988838

CONFERENCES

- [1] **J.G. Manlapaz**, D. Reyes, C. P. Buensuceso, R. A. Peña, R. Parocha, and E. Q. Macabebe, "Optimization and simulation of a grid-connected PV system using load forecasting methods: A case study of a university building", 2nd ASEAN International Conference on Energy and Environment, *Best Presenter*
- [2] C. P. Buensuceso, **J.G. Manlapaz**, D. Reyes, R. A. Peña, R. Parocha, and E. Q. Macabebe, "Energy Management System for a University Building Microgrid using Particle Swarm Optimization", 2022 International Conference on Power and Energy

EXPERIENCE

Academic Tutor

August 2018 - December 2022

Ateneo de Manila University

Quezon City

- Prepared, organized, and produced tutoring videos on STEM subjects mainly calculus, circuits, and electronics
- Mentored six ECE majors with different backgrounds and assisted in their academic needs resulting in a 30% increase in their major examinations
- Developed communication and pedagogical skills through student-centered strategies

Intern, CIO - Travel and People Mobility - IT

July 2021 - August 2021

Accenture in the Philippines

Mandaluyong City

- Developed automation code for addressing developer backlogs, resulting in a 25% increase in bug processing
- Developed 3 automation scripts for addressing bugs in a span of two weeks.

LEADERSHIP & SERVICE

Ateneo Electronics and Computer Engineering Society

Executive Board Member (2020-2022), Central Board Member (2019-2020)

- Organized 7 technical workshops ranging from Basic Arduino to Git Fundamentals
- Organized departmental events and schedules which increased workshops offered by 100% and tutorial services given by 200%.
- Compiled 25 ECE and CpE academic resources into a centralized folder aimed at assisting 160 ECE and CpE majors in understanding the new ECCE curriculum.
- As an **overseer**, worked as the main externals head in communicating prospective speakers for the event, led a team of freshmen in organizing the event.

Learning Management System Support Services

Member (2020)

- Trained and handled ten professors from the Loyola School of Theology, School of Social Sciences, and John Gokongwei School of Management to be familiar and competent with their respective LMS to facilitate them in their transition to online instruction.

SKILLS

Programming Languages: C++, Python, SQL (MySQL), Arduino, Julia, HTML, CSS, Bootstrap, MATLAB, Simulink

Libraries: pandas, NumPy, Matplotlib, SymPy

Miscellaneous Software: Notion, LaTeX, AWS, Tableau, LTSpice, MultiSim, HOMER Pro

AWARDS AND HONORS

Cum Laude Honors

First Honors (January 2023, June 2022, January 2022, January 2021)

Second Honors (June 2021, June 2019)

Financial Aid Scholarship (August 2018 - December 2022)

DOST-SEI Merit Scholarship (August 2018 - December 2022)