

# Juan Glicerio C. Manlapaz

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## PROFESSIONAL PROFILE

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- An upcoming graduate of a bachelor of science in electronics engineering and a minor degree in data science and analytics in Ateneo de Manila University. With strong backgrounds in technology and liberal arts seeking ways to intersect the two to provide professional value.
- An aspiring academic professional and researcher with a degree in electronics engineering and computer science, with emphasis in energy engineering, power electronics, and data science seeking a career in academe and research and development through applying for graduate studies in electronics engineering.

## EDUCATION

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### Ateneo de Manila University

Aug. 2018 – May 2023

*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

## EXPERIENCE

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### Academic Tutor

January 2022 - Present

*Ateneo de Manila University*

*Quezon City*

- Prepared and organized tutoring materials on STEM subjects
- Exposed to various students with different backgrounds
- Developed communication 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 remaining backlogs. Debug and refine automation scripts
- Exposed to company strategy and company training

## SKILLS

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

**Libraries:** pandas, NumPy, Matplotlib, SymPy

**Miscellaneous Software:** Notion, LaTeX, AWS, Tableau

## LEADERSHIP & SERVICE

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### 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 external 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.

## PUBLICATIONS

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- [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

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- [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

## AWARDS AND HONORS

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**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)