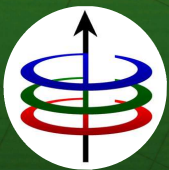


**UNIVERSITY OF THE PHILIPPINES
ELECTRICAL AND ELECTRONICS ENGINEERING INSTITUTE**

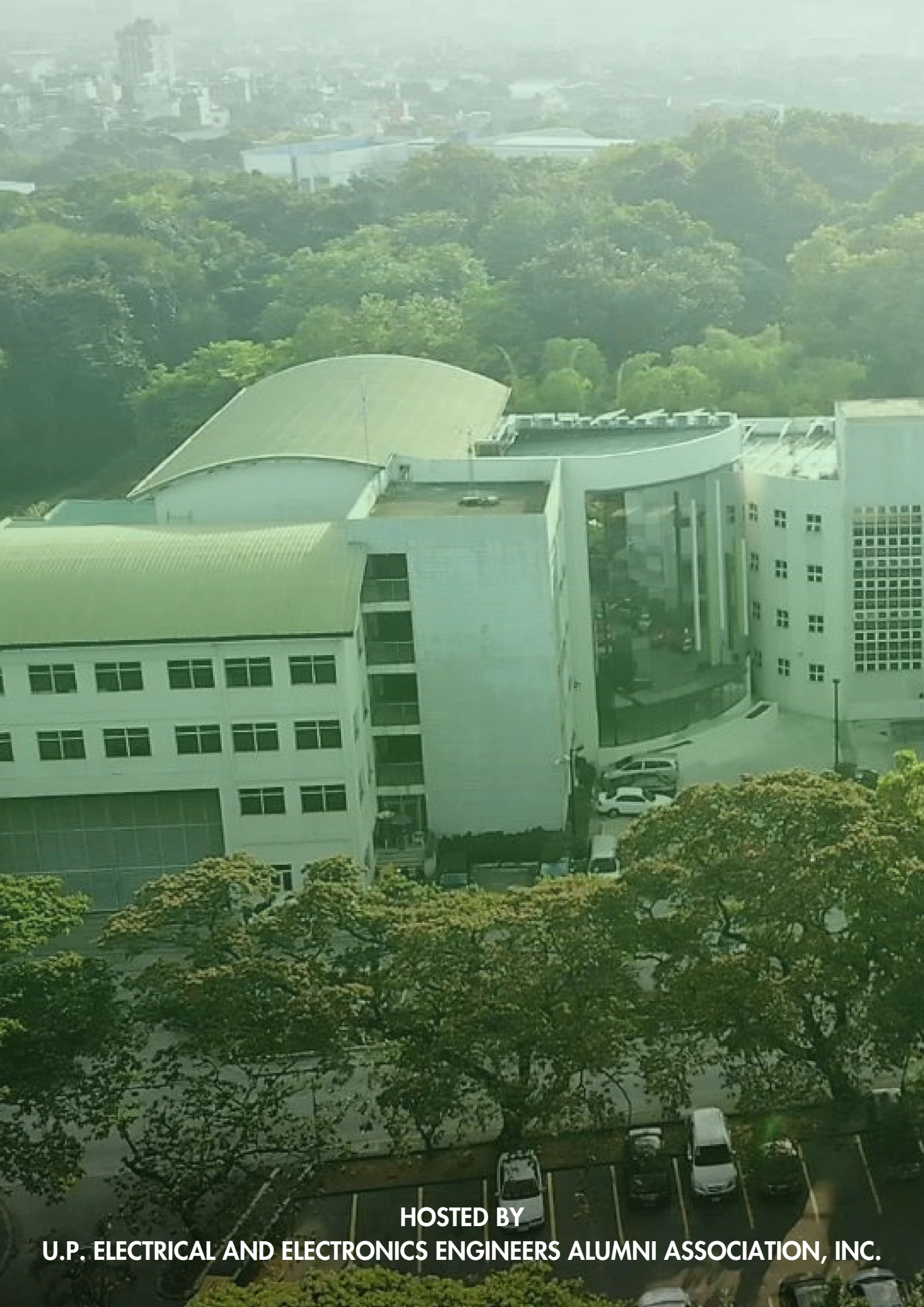
Staying on Track

**INNOVATING WITH RENEWABLES AND
ELECTRIC MOBILITY**



THE 18TH EEE ALUMNI HOMECOMING
September 28, 2024 | U.P. Bahay ng Alumni





HOSTED BY

U.P. ELECTRICAL AND ELECTRONICS ENGINEERS ALUMNI ASSOCIATION, INC.



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UP Naming Mahal

by Nicanor Abelardo

**UP naming mahal, pamantasang hirang
Ang tinig namin, sana'y inyong dinggin
Malayong lupain, amin mang marating
Di rin magbabago ang damdamin
Di rin magbabago ang damdamin**

**Luntian at pula, Sagisag magpakailanman
Ating pagdiwang, bulwagan ng dangal
Humayo't itanghal, giting at tapang
Mabuhay ang pag-asa ng bayan
Mabuhay ang pag-asa ng bayan**



MESSAGE FROM THE UP PRESIDENT



ATTY. ANGELO A. JIMENEZ

On behalf of the University of the Philippines, I warmly congratulate the members, officers, board members, and supporters of the UP Electrical and Electronics Alumni Association, Inc., on successful commemoration of the 18th UP Electrical and Electronics Engineering Institute Alumni Homecoming. To our beloved UP alumni, welcome back home to UP!

Today's celebration is quite on track with this year's homecoming theme, "STAYING ON TRACK: Innovating with Renewables and Electric Mobility," as the UPEEEIAAI honors our UP EEE alumni awardees and reconnect with the present and forthcoming activities of both the Institute and the Alumni Association. This event provides an excellent platform for our alumni from various industries, academic institutions, and businesses to reconnect, exchange ideas, and collaborate.

The UP EEE Institute's activities align perfectly with the flagship programs of the University of the Philippines, as outlined in our 2023-2029 Strategic Plan. Specifically, your pioneering work in Open Radio Access Networks (Open RAN), IC design, electric mobility, and renewable energy reflects UP's commitment to innovation-driven research and development.

These initiatives are crucial to advancing UP's strategic goals of fostering technological advancements, building resilient infrastructures, and promoting sustainable development—key components of our university's 10-point agenda.

By engaging in collaborative research with government, industry, and academic institutions, the UP EEE Institute remains at the forefront of shaping solutions that address national and global challenges. Your contributions directly support the university's goals of becoming a leader in innovation and creating a lasting impact through science, technology, and engineering.

Thank you for your unwavering commitment to pushing the boundaries of technology and for representing the University of the Philippines with distinction in your respective fields. I look forward to seeing the exciting advancements that will arise from your ongoing projects and collaborations.

Daghang salamat kaninyong tanan! I wish you all an enjoyable and memorable homecoming and celebration.



MESSAGE FROM THE UPD CHANCELLOR



ATTY. EDGARDO CARLO L. VISTAN

On behalf of the University of the Philippines Diliman, I extend a warm welcome to the UP Electrical and Electronics Engineering Institute's (EEEI) alumni. I would also like to congratulate the officers and members of the UP Electrical and Electronics Engineering Institute Alumni Association, Inc., as well as the faculty, students, and administrative staff of the UP EEEI, on the success of the 18th UP EEEI Alumni Homecoming, with the theme Staying on Track: Innovating with Renewables and Electric Mobility.

I have witnessed the remarkable dedication and resilience of the EEEI community in continuously tapping the power of collaboration to drive meaningful change. The institute has also strengthened ties with our alumni, such as with Dr. Magdaleno Albarracin whose donation proved pivotal in improving our instructional infrastructure. Additionally, the EEEI has built strong partnerships with industry leaders—many of whom are EEEI alumni themselves. Partnerships with organizations like Fluor, Microchip, ADI, Advanced Energy, and Meralco have significantly improved our laboratories, providing our students with state-of-the-art facilities where they conceptualize, thrive, and innovate.

Moreover, the EEEI has recently signed multiple memoranda of understanding and memoranda of agreement with both local and international academic institutions. These linkages and collaborations are critical in enhancing our curriculum and in influencing the direction of electrical, electronics, and computer engineering programs throughout the country.

Our faculty and researchers have also been incredibly active, with several research projects that have resulted in a growing number of publications each year. These efforts reflect the institute's commitment to pushing the boundaries of technology and to contributing to solutions to some of the most pressing local and global challenges.

As we gather today, let us celebrate the many achievements of the EEEI and its alumni, and look ahead to even greater accomplishments. The collaborative spirit that defines this community will continue to pave the way for innovations that have a lasting impact not only on our university but also on the nation and the world.

Thank you for your unwavering support, and I look forward to more milestones in the years to come.



MESSAGE FROM THE UPD COE DEAN



DR. MARIA ANTONIA N. TANCHULING

My best wishes to the alumni, faculty, and staff of UP Electrical and Electronics Engineering Institute (EEEI) for celebrating the 18th UP EEEI Alumni Homecoming, with the theme “STAYING ON TRACK: Innovating with Renewables and Electric Mobility.”

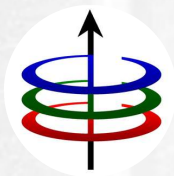
Our theme this year emphasizes the critical role that innovation in renewables and electric mobility will play in shaping a sustainable future. As alumni of the UP Electrical and Electronics Engineering Institute, you are part of a community that is poised to lead in these transformative fields. Your expertise and contributions can help us remain on track, not just in fostering technological advancement but also in addressing the pressing needs of society.

At the heart of our work is a commitment to our vision of being a global leader in engineering education, research, technology innovation, and service.

Together, we can continue to nurture honorable and excellent engineers equipped with global perspectives and a deep commitment to the nation.

This homecoming is more than just a reunion; it is a call to action. I encourage you all to actively participate in the projects and initiatives of the Institute and to help us uphold our mission of generating knowledge, producing impactful innovations, and contributing meaningfully to our society. With your continued support and engagement, we can achieve the College and Institute’s goals and strengthen our role in the future of engineering.

Thank you for your unwavering commitment to the Institute, and I look forward to the fruitful collaborations that will arise from this gathering.



MESSAGE FROM THE EEI DIRECTOR



DR. LEW ANDREW R. TRIA

Welcome to the 18th UP EEI Alumni Homecoming! Your presence today reinforces the strong ties that continue to bind us, and we are deeply grateful to have you with us once again.

Last year's homecoming marked a pivotal moment for us. We got back on track, rekindling meaningful involvement from our alumni in supporting the instructional, research, and extension activities of the Institute. This year, our theme, "STAYING ON TRACK: Innovating with Renewables and Electric Mobility," calls us to sustain that momentum. Together, we can continue to build on the rapport we have established, driving innovation and progress in critical areas of engineering that will shape the future of our nation and the world.

As we reflect on the history and growth of the Institute, it is clear that the journey has been remarkable. From the generous donation of German Yia Hall in 1974, which became home to the Electrical Engineering Department and its early labs, to the

expansion in 1994 with the addition of the ECE and CoE programs, to 2008, we became the UP Electrical and Electronics Engineering Institute, we have continuously evolved. Today, we are striving to elevate the Institute to a national institute, with a focus on cutting-edge and innovative instruction and research that address societal needs.

I hope that today's homecoming serves as a reminder of how far we have come and as a source of inspiration for the road ahead. We hope to see you at our future events and invite you to take part in our vision of becoming a National Institute—a hub for world-class education, research, and innovation.

Thank you for your continued support, and together, let's stay on track toward building a brighter and more sustainable future.

Mabuhay ang UP EEI, at Mabuhay ang ating mga alumni!



MESSAGE FROM THE UPAE PRESIDENT



ENGR. AURELIO GOMEZ

My fellow Alumni Engineers, congratulations to your 18th alumni homecoming! You stand at the intersection of remarkable change and opportunity. Your theme, “Staying on Track: Innovating with Renewables and Electric Mobility,” speaks to the responsibility that you as electrical and electronics engineers has to lead in this era of transformation. The global shift towards renewable energy and electric mobility isn't just a trend—it's a necessity for our planet's future.

As professionals, you are uniquely positioned to harness your skills and knowledge to drive the innovations that will power this transition. Together, you can make a profound impact by developing sustainable technologies that not only improve our lives but also safeguard the environment.

In our field, innovation is both a challenge and an opportunity. You are tasked with creating systems that are smarter, more efficient, and greener than ever before. From designing more efficient electric vehicles to integrating renewable energy sources into our power

grids, the potential for impact is immense.

Staying on track means continuing to push the boundaries of what is possible, embracing the latest technologies, and applying our expertise to solve real-world problems. Our collective efforts in research, design, and implementation will determine how we overcome the energy challenges of tomorrow.

As we look forward, let this moment serve as a reminder of your shared commitment to progress. You are part of a legacy of engineers who have always risen to the occasion and faced challenges with creativity and resilience. Now, more than ever, your work is crucial in ensuring a sustainable and electrified future. By staying true to your values of innovation and excellence, you can shape a future that is not only technologically advanced but also environmentally responsible. Continue to inspire each other and contribute to a world powered by renewables and electric mobility.

Mabuhay ang mga Inhenyero at
Siyentipiko ng Bayan!



MESSAGE FROM THE UPERDFI CHAIRMAN



MANUEL H. TORRES

It is with great pride and joy, that I extend my warmest congratulations to the organizers, officers, and members of the UP Electrical and Electronic Engineers Alumni Association, Inc., as you gather for this momentous homecoming event. This special occasion not only celebrates your accomplishments as engineers but also strengthens the bonds that unite you as a community of dedicated professionals and lifelong learners.

To our esteemed alumni, your achievements in various fields of industry, academia, and innovation are a testament to the exceptional training and education you received. Your contributions continue to electrify the world, inspiring the next generation of engineers to push boundaries and pursue excellence.

As you reunite with old friends and forge new connections, may this homecoming serve as a reminder of the passion, knowledge, and camaraderie that have shaped your journeys. Together, you illuminate a future filled with innovation, leadership, and service.

Likewise may this be an occasion to reaffirm our commitment to give back to our Alma Mater, “ang UP nating mahal”.

Once again, congratulations on this significant occasion. May the spark of this celebration continue to energize your professional and personal endeavors!



MESSAGE FROM THE UPEEEAAI PRESIDENT



JOSE S. REYES JR., PEE, MSEE

It is with great pleasure that I welcome you to our 18th UP EEE Alumni Homecoming. This year's theme, "Staying on Track - Innovating with Renewables and Electric Mobility," reflects our unwavering commitment to advancing sustainable and innovative solutions in the energy sector.

In 2023, we celebrated our return to in-person gatherings with the theme "Back on Track – Advancing Innovation through AI." It was a testament to our resilience and adaptability in the face of unprecedented challenges. This year, we continue to build on that momentum, focusing on the critical role of renewable energy and electric mobility in shaping a sustainable future.

As alumni of this esteemed institution, we have always been at the forefront of technological advancements and industry innovations. Our collective expertise and experiences in fields such as smart grids, digitalization, and power systems analysis position us uniquely to lead the charge in this new era of energy transformation. I am incredibly proud of the strides we have made and the impact we continue to have on our communities and the world at large.

Our commitment to research, development, and community service remains as strong as ever, and I am confident that together, we will continue to drive progress and innovation.

We have completed student-related projects, such as the recognition of outstanding EEE graduates, best undergraduate projects and support to various student organization activities. Looking ahead, we are excited to offer Continuing Professional Development (CPD) courses, group health maintenance program, stipend support for students, career talks and mentorship programs, student research grants, outstanding alumni and student awards, and improvements in membership engagement and benefits.

Let us use this homecoming as an opportunity to reconnect, share our achievements and inspire one another to push the boundaries of what is possible. Together, we can ensure that we stay on track towards a brighter, more sustainable future.

Thank you for your continued support and dedication. Here's to another year of innovation and excellence!

MESSAGE FROM THE KEYNOTE SPEAKER



FERDINAND O. GELUZ

**Meralco Sr. Vice President and Chief Revenue Office
UP EE 1986**

Welcome back to our beloved alma mater! It is with great joy and pride that we gather once again to celebrate our shared journey and achievements. This year's theme, "Staying on Track - Innovating with Renewables and Electric Mobility," reflects the dynamic and transformative era we are living in.

As we navigate the transition of the power industry, the roles of electrical engineers, electronics engineers, and computer engineers have never been more pivotal. Your expertise and innovation are the driving forces behind the advancements in renewable energy and electric mobility, shaping a sustainable future for generations to come.

As Electrical Engineers, you develop and optimize renewable energy sources like solar, wind, and hydroelectric power, ensuring they are efficient, reliable, and seamlessly integrated into our power grids. Electronics Engineers design and improve electronic systems that control and monitor these installations, enabling more efficient energy distribution and consumption. Computer Engineers, on the other hand, develop software and algorithms to manage and optimize energy systems, ensuring renewable energy is utilized effectively and electric mobility solutions are intelligent and user-friendly. These capabilities are essential to support the ongoing shift of the Energy Industry to one that is decarbonized, decentralized, digital, and deregulated- creating a more sustainable, resilient, and efficient power system for the future.

We are also proud to highlight the significant strides being made by Meralco in shaping the power industry in the Philippines. Meralco is committed to securing 1,500 MW of its power requirements from renewable energy sources by 2030 and is accelerating its renewable energy build-out plan to achieve up to 1,500 MW of clean energy capacity by 2030. Additionally, beyond proactively converting 25% of its vehicle fleet to EV by 2030, Meralco is also taking a bigger role in pushing for the seamless shift of customers into the E-mobility ecosystem by enabling EV charging stations, ensuring reliable supply and swift energization process, and advocating for customer-centric rate programs for home and commercial setups.

Together, we are not only advancing technology but also driving the cultural shift towards sustainability and environmental stewardship. Your dedication and ingenuity are inspiring, and we are proud to count you among our distinguished alumni.

As we celebrate our past and look forward to the future, let us continue to innovate, collaborate, and lead the way in creating a cleaner, greener world. Thank you for your contributions and for being a part of this incredible journey.

Enjoy the homecoming festivities, reconnect with old friends, and let's continue to stay on track towards a brighter, more sustainable future.

THE UP EEEI

The Electrical and Electronics Engineering Institute (UP EEEI) at the College of Engineering, University of the Philippines Diliman, stands as a premier institution for research and higher learning in electrical and electronics engineering.

The Institute is dedicated to producing a critical mass of highly-skilled engineers equipped to tackle today's technological challenges and lead the country's drive for technological competitiveness.

The Institute offers research-oriented undergraduate programs (BS EE, BS CoE, and BS ECE) that emphasize a thorough and scholarly understanding of fundamental concepts. These programs are designed to develop engineering design and analytical skills, provide

extensive practical experience, encourage creativity and resourcefulness, expose students to new and emerging technologies, promote self-learning, enhance communication proficiency, and instill proper values, a healthy philosophical outlook, and strong ethical principles.

The graduate programs (MS EE, ME EE, and Doctoral Programs) offer advanced training in various specializations. These programs aim to produce highly qualified engineers capable of engaging in creative and challenging work in research, development, high-level design, technology management, university instruction, and more.

VISION

Leading national institution in Electrical, Electronics, and Computer Engineering, internationally recognized for excellence in instruction, research, and service to the country.

MISSION

To produce graduates that meet society's current and future technical needs by delivering quality and inclusive education;
To promote creation and dissemination of knowledge through innovative, multidisciplinary, and high impact research, and;
To serve society by providing technical expertise to government, industry, and the community.

CORE VALUES

Integrity and Excellence;
Curiosity and Openness;
Diversity and Community



EEEI LABORATORIES

The research areas of faculty members and students cover a wide range of topics which includes microelectronics, digital signal processing, software engineering, computer systems and networks, instrumentation and control, robotics, power electronics, power systems and renewable energy systems. Work in the various research areas is supported by professorial chairs, grants, and endowments from the Philippine government and various industry partners. The Institute is organized into 15 research laboratories, each with a specific line of research interest.

POWER SYSTEM SIMULATION LABORATORY (PSSL)

Involves research related to the software and hardware simulation of power systems. Develops algorithms and conducts studies concerning various power system problems: power flow study, short circuit analysis, protective device coordination, energy planning.

ARTESYN POWER ELECTRONICS LABORATORY (PEL)

Laboratory that explores the various applications of solid-state electronics to control the and convert electric power: rectifiers, inverters, and converters. They are also currently working on electric vehicle research.

ELECTRICITY MARKET RESEARCH LABORATORY (EMRL)

Research concerning the electricity market with emphasis on the interaction between market operation and system operation.

SOLAR POWER LABORATORY (SOLAR OR SPL)

As one of the leading research institutions for renewable energy research in the country, the SPL is continuously striving to develop, innovate, and promote novel energy technologies in order to uplift the quality of life for Filipino society and to safeguard the environment. Since its inception, the SPL has continually developed its expertise in many fields of renewable energy, advocates sustainable development, and the judicious use of energy resources through the implementation of its projects and programs.

SMART GRID RESEARCH CENTER (SGRC)

Research topics include design and implementation of smart grid building blocks; control and communication solutions for smart grids; demand side management; integration of renewable & distributed energy resources to electric power systems; microgrids; virtual power plants; smart buildings & smart homes; and regulatory aspects and market operations for smart grid.



ROBOTICS AUTOMATION LABORATORY (RAL)

The Robotics and Automation Laboratory is a research laboratory which works on robotic manipulators, bipeds, and autonomous navigation. Research topics under RAL may include, but not limited to manipulator dynamics, motor drives, sensor development, and autonomous vehicles.

SMART SYSTEMS LABORATORY (SSL)

SSL recognizes that current and emerging systems are/will be "smart": sensing their surroundings, operating autonomously, and collaborating with other systems. SSL provides an innovative environment for the design, research, and development of smart systems with focus on the areas of WSN, IoT, and cyber physical systems.

UBIQUITOUS COMPUTING LABORATORY (UCL)

The core mission of UCL is to build technologies that will enable computing devices to become pervasive and useful to our society. Research projects in UCL include AI for edge devices (tinyML), multimodal learning (vision, speech, text, point cloud), synthetic people, human-computer interfaces, autonomous robots and IoT protocols.

ANALOG DEVICES MICROELECTRONICS AND MICROPROCESSORS LABORATORY (MICROLAB)

The main research thrust is to develop the integrated circuit (IC) design capabilities of the UP-EEEI. In the long run, it aims to produce globally competitive engineers and technologies to further grow and develop the Philippine semiconductor and electronics industry.

DIGITAL SIGNAL PROCESSING LAB (DSP)

The Digital Signal Processing Laboratory of the Electrical and Electronics Engineering Institute is a research laboratory geared towards digital signal processing algorithm development and implementation.

WIRELESS COMMUNICATIONS ENGINEERING LABORATORY (WCEL)

The Wireless Communications Engineering Laboratory (WCEL) is a research and instructional facility engaged in the design, integration, analysis, and testing of wireless communication devices, circuits, and systems. It is equipped with state-of-the-art radio frequency (RF) and microwave test equipment and simulation software, digital microwave radios, antennas, and RF amplifiers for use in various applications such as rural connectivity, emergency response, and public safety.



INNOVATION RESEARCH CENTER (IRC)

The Innovation Research Center (IRC) laboratory is a research and instructional facility of the UP-EEEI which provides technology solutions in managing production resources, health care, and education. Its research thrusts are biomedical engineering; traffic, structural, and environmental monitoring; wireless sensor networks; and embedded systems and mechatronics; and hardware interfaces for interactive learning. It is the development arm of the Department of Science and Technology (DOST)- UP Enterprise Center for Technopreneurship.

SMART PLANT PRODUCTION IN CONTROLLED ENVIRONMENTS (SPICE) / CENTER FOR AIR QUALITY RESEARCH IN URBAN ENVIRONMENTS (CARE) - SPICE-CARE RESEARCH GROUP

The UP CARE aims to transform lives through the development of accessible technologies and data-driven solutions towards a cleaner and healthier environment, while enabling local talents of various disciplines to address air quality challenges and promote clean air for everyone

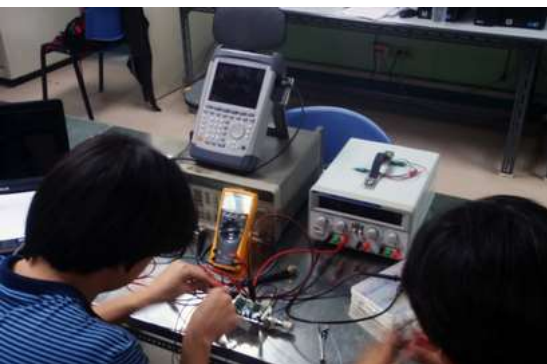
SPICE aims to lead the research and development (R&D) for the design of a stand-alone urban farm system and establish protocols for micropropagation, cryopreservation, and nursery management of rare, endangered, and economically valuable native plant species

COMPUTER NETWORKS LABORATORY (CNL)

The Computer Networks Laboratory (CNL) is the Institute's center of research in computer networking and embedded computing applications. The lab is engaged in a wide range of projects, both practical and theoretical. Researches in CNL cover various rapidly-evolving aspects and applications of communication networks, including but not limited to mobile systems, social networks, application-layer overlays, novel link / routing / transport protocols, cooperative community networks, low-overhead computing and networking, smart grids and smart homes, sensor networks, the Internet of Things (IoT), and big data.

UNIVERSITY LABORATORY FOR SMALL SATELLITES AND SPACE ENGINEERING SYSTEMS (ULYS3ES)

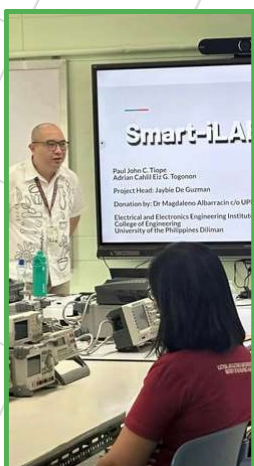
ULyS3ES was a joint project of the University of the Philippines Diliman and the Department of Science and Technology Advanced Science and Technology Institute (DOST-ASTI). ULYS3ES consists of two buildings designated as ULYS3ES-1 and ULYS3ES-2 which hosts equipment and facilities that would allow the designing and development of small satellites and the testing and implementation of satellite bus and payload systems. It hosts a full anechoic chamber (FAC) to aid in measuring antenna radiation patterns and hasten the development of satellite communication systems. It also has a separate temperature and humidity test chamber.



UPD EEEI UPGRADED LABORATORIES AND EQUIPMENT

Last year, **Dr. Magdaleno B. Albarracin, Jr.**, an alumnus of Electrical Engineering, generously donated funds to upgrade four laboratories and develop a smart lab, i.e., the Smart I-Lab, at the UP Electrical and Electronics Engineering Institute.

The upgraded laboratories and equipment were formally turned over, as well as the inauguration of the Computing Laboratories, last December 2023.



Just recently, the Smart I-Lab Project Team, headed by Dr. Jaybie De Guzman, conducted its first technical demonstration last September 16, 2024. The event showcased a video conferencing mirrored lab set-up between the UP Diliman and UP Los Baños utilizing an enhanced two-camera set-up on both campuses.

The Smart I-Lab is UP EEEI's prototype setup for the Future of Engineering Instruction: a green, future-ready, and smart instructional laboratory equipped not only with computing facilities and electronic testing setups, but also powered by renewable energy, equipped with teleconferencing and collaborative learning setups, and embedded with sensing, and automation features for energy monitoring, and smart control.



Photos courtesy of Tim Valenzuela, EEEI; and UPLB Department of Electrical Engineering Facebook Page.

STUDENT ORGANIZATIONS



UP CIRCUIT

UP Circuit is an academic organization based in the Electrical and Electronics Engineering Institute (EEEI) of the University of the Philippines – Diliman that fosters camaraderie, cooperation and teaches its members to appreciate and respect the advancement of science and technology, especially in the field of Electrical and Electronics Engineering. Throughout the years, it has established and maintained several events and projects, such as SquEEEze which is the only national intercollegiate Electrical and Electronics Engineering quiz show in the Philippines; The E-Waste Project (TEP) which is an annual campaign with the advocacy of raising awareness about proper Electronic Waste (E-Waste) disposal and management; and InteraCKT which is an annual event that caters to incoming EEE freshmen of UP Diliman, welcoming them to the university through fun activities and an interactive campus tour. UP Circuit aims to conduct excellence, rectify character, and amplify skills and talents. Dare to be more; Dare to be different.



UP ENGINEERING RADIO GUILD (UP ERG)

UP Engineering Radio Guild (UP ERG) is an academic organization based in the Electrical and Electronics Engineering Institute. Its firm academic thrust, tied with socio-civic and extracurricular pursuits, has filled its eight decades with a radio club, scholarship programs, inter-collegiate gatherings, outreach programs, concerts, seminars, and techno fairs, among countless other activities.



STUDENT ORGANIZATIONS

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS UP DILIMAN STUDENT BRANCH (IEEE UPD SB)

The Institute of Electrical and Electronics Engineers UP Diliman Student Branch (IEEE UPD SB), an affiliate of the largest technical professional organization worldwide, dedicates to promote the passion for technology through technical, academic, professional, and humanitarian services to the student populace of the University. Our goal is to cater individuals in all fields through our events. In addition to technical workshops and webinars designed to improve relevant skills in tech, we also provide holistic talks such as mental health and university life discussions.

Along with other IEEE student branches, TechEx is a series of webinars that aim to spread knowledge and information about the different topics that are of significance to the advancing technological world. In partnership with various tech companies, career.start() is a series of webinars and workshops that aim to discuss different topics including career opportunities, company benefits, or technological advancements. Bit Series is a series of online workshops that aim to teach various programming languages and skills such as programming with Python and C++, and web development.



UP INSTITUTE OF ELECTRONICS AND COMMUNICATIONS ENGINEERS OF THE PHILIPPINES - UP DILIMAN CHAPTER (UP IECEP)

UP IECEP is an academic, non-profit, non-political duly recognized organization of the UP College of Engineering aimed at improving the academic performance of its members and to establish a common ground for BS ECE students in the Electrical and Electronics Engineering Institute.

We are one of the few organizations in UP Diliman affiliated with a national body, UP IECEP is one of the student chapters of the Institute of Electronics Engineers of the Philippines, a PRC-recognized organization for professional electronics engineers (PECE), electronics engineers (ECE), and electronics technicians (ECT) of the Philippines



STUDENT ORGANIZATIONS



INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS—COUNCIL OF STUDENT CHAPTERS, UP DILIMAN CHAPTER (IIEE-CSC-UPD)

The Institute of Integrated Electrical Engineers—Council of Student Chapters, UP Diliman Chapter (IIEE-CSC-UPD), is a non-profit, non-political academic organization based in the College of Engineering at the University of the Philippines Diliman. Dedicated to fostering academic excellence, holistic development, and professional growth, the organization supports its members in advancing within the field of Electrical Engineering. As part of the Council of Student Chapters, we serve as a key conduit for information and technical resources, bridging the gap between student members and the national body of electrical engineers and practitioners under the Institute of Integrated Electrical Engineers of the Philippines, Inc.



BECOME UPEEEAAI LIFETIME MEMBER TODAY!



2024 UP EEEAAI MEDAL FOR BEST UNDERGRADUATE PROJECT

ELECTRIFICATION OF BOATS FOR SMALL-SCALE RURAL FISHING

Marissa Francisco Munar
Lew Andrew R. Tria, PhD

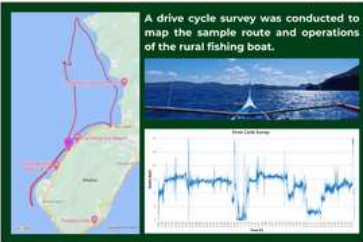
With the goal of electrification being inclusive for small-scale industry marine vehicles, this study focused on designing an electric propulsion system to serve as a viable alternative or potential replacement for traditional fuel-powered fishing boats.

OBJECTIVES

- To create a model similar to the existing hull structure of fishing boats to be used for designing, simulating, and testing of the modified layout for electric boats;
- To size, design, and test the fully electric system for rural fishing boats; and
- To analyze the capacity of the electric system as viable alternative or replacement for a fuel-dependent system.



ONSITE SURVEY



SYSTEM MODELING & SIZING



SOFTWARE SIMULATIONS & HARDWARE EMULATIONS

5kW Motor (3000RPM Rated Speed, 13kW Peak Power)

72V Battery Bank (23 cells, 3.3V Nominal Voltage, 60Ah Charge Capacity)

Dynamometer Testing was used to emulate the overall system performance by monitoring the voltage, setting the engine speed, and measuring the total energy consumption.

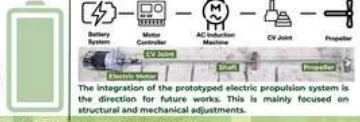
Prototyping components: Motor, Motor Controller, AC Induction Motor, CV Joint, Propeller.

Projected Length of Operation: 2 hours and 16 mins.

ELECTRIC PROPULSION SYSTEM



PROTOTYPING



UP Engineering Research and Development Foundation, Inc.
Electric Mobility Research and Development Group
marissa.munar@eee.upd.edu.ph | mfmunar@up.edu.ph

PROJECT DESIGN CATEGORY



Philippine Indigenous Musical Instrument Recognition and Classification with Timbre and Pitch Characterization

Russel James B. Catibog, Marc Gino C. Del Rosario, Patrick John G. Santisidad, Rhandley D. Cajote, Carl Timothy S. Tolentino

Motivation: Philippine traditional musical pieces are rarely used in modern media. This study is motivated to promote Philippine Indigenous Musical Instruments (PIMIs) through Musical Information Retrieval (MIR), specifically focusing on individual recognition and family classification, added with timbre and pitch characterization.

Data Preparation: Instrument recordings were gathered from the Katunog database, UPCE Archives, and a live recording session. Samples were then pre-processed, with a few subjected to augmentation.

Pre-Processing: Includes 2. Normalization and 3. Augmentation (Pitch Shifting).

Recognition and Classification: Two audio features, Mel Spectrogram and Mel Frequency Cepstrum Coefficients (MFCC), were extracted and taken as inputs to two Convolutional Neural Network (CNN) architectures: VGG-16 and Custom CNN, for individual instrument recognition and family instrument classification tasks. Different train-test splits were implemented through various k-values using K-Fold Cross Validation.

CNN Architecture Layers: Includes Convolutional, Pooling, and Fully Connected layers.

Percentage Confusion Matrices: Shows performance for VGG-16 and Custom CNN. Custom CNN with MFCC demonstrates the lowest performance metrics, possibly due to the fewer dimensions of the extracted feature, which may contribute to a less detailed analysis of audio patterns and trends. Meanwhile, VGG-16 with Mel Spectrogram exhibits the highest accuracy and F1 Score, reaching approximately 98%. These results can serve as a basis for other researchers in their future endeavors in exploring PIMIs and promoting the country's culture.

Performance Metrics: Includes Accuracy, Precision, and Recall.

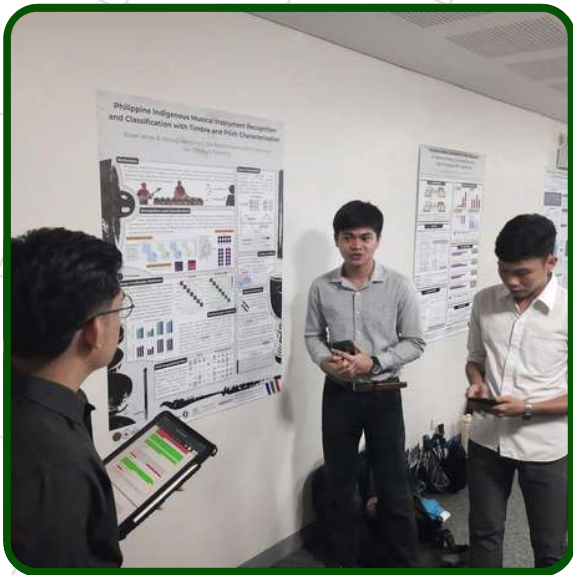
Self-Organizing Map: Both Mel Spectrogram and MFCC SOMs show effective clustering that is in line with high-performance metrics of individual recognizability and family classification systems.

Timbre & Pitch: Timbre is characterized in correlation with spectral and temporal features. Pitch detection is done using YIN algorithm.

Characterization: Instrument's brightness, fullness, and roughness tend to vary with different methods of playing. Instruments producing snapping, crackling, or slapping sounds tend to have higher spectral bandwidth, resulting in a higher timbre based on their spectral centroid. Also, instruments with less sustained sounds usually have higher spectral bandwidth, resulting in a higher timbre. Additionally, playing styles that produce more wobbling sounds tend to increase the ZCR value, indicating a higher timbre.

Pitch Characterization: Shows that the Western scale is not fully applicable to the country's indigenous music, with observed differences of up to 50 cents.

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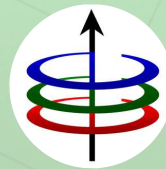
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co-located with:



NEECE CON2024

Theme: National Development through Sustainable Industrialization

National Electrical, Electronics, and Computer Engineering Conference 2024

July 18-19, 2024

Novotel Manila Araneta City, Quezon City, Philippines

EVENT HIGHLIGHTS

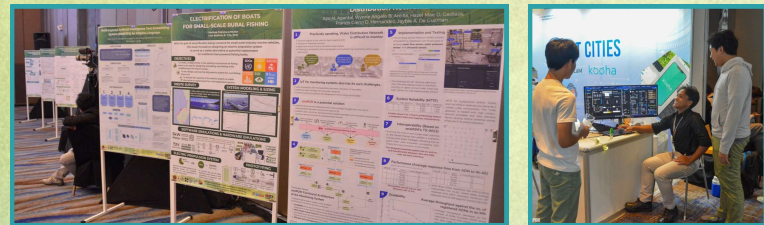
The first **National Electrical, Electronics, and Computer Engineering Conference (NEECECon)** was met with overwhelming response, with **over 300 participants** from the industry, government, and academic institutions attending the two-day conference from July 18 to 19 at the Novotel Manila Araneta City.

[...] The conference featured about a **hundred individual research projects** grouped into **nine technical sessions and two poster sessions** from EEEI students, faculty, other UP System constituent units, government agencies, and industry partners. The research projects and themes of the technical sessions were grouped into **artificial intelligence and smart cities; power and energy; environmental monitoring; electric vehicles and energy storage; connectivity; industry talks; and health.**

[...] NEECECon 2024 was conducted along and in partnership with the Advanced Science, Technology, and Innovation Convention 2024 (ASTICon 2024), a convention conducted by the Department of Science and Technology - Advanced Science and Technology Institute (DOST-ASTI). The ASTICon 2024, with the theme Together, We Can, showcased the latest research projects being done at UPD and DOST-ASTI.

Excerpt from:

<https://upd.edu.ph/eee-holds-1st-neececon/>



Photos courtesy of Jerald Caranza, UP DIO; and Tim Valenzuela, EEEI



THE UPEEEAAI

Since the Board of Regents approved the curriculum for the Department of Electrical Engineering on January 10, 1916, the department has produced multi-talented graduates specializing in Power, Communications, and Computer Engineering. Initially, there was no alumni organization for Electrical Engineering (EE) graduates—only notable student organizations like UP ERG (est. 1935), UP Circuit (1993), and IECEP (2001). Graduates eagerly ventured to all corners of the globe for work or further studies after enduring one of UP's challenging engineering programs.

The Department of Electrical & Electronics Engineering, or Triple E, was established in 1994 with the creation of two new undergraduate programs: BS Electronics & Communications Engineering and BS Computer Engineering.

In 2001, the department moved to its current location on Velasquez Street, transitioning from its humble beginnings at UP Manila to Melchor Hall, Yia Hall, and NEC. During the inauguration of the new EEE building in 2002, a small group of alumni and faculty members recognized the need to unify graduates into a cohesive group, leading to the formation of the UP EEE Alumni Association, Inc.

The UP Electrical and Electronics Engineers Alumni Association, Inc. (UPEEEAAI) was formally incorporated on June 7, 2003, and registered as a non-profit organization with the SEC on February 27, 2004.

MISSION AND VISION

- To unite its alumni by promoting friendship, loyalty, and cooperation;
- To ensure the recognition of alumni as respected and integral part of the university;
- To support the EEEI in its endeavors;
- And to work towards the advancement of the fields of electrical and electronics engineering by promoting and focusing support and service to the country and to the Alma Mater.




BECOME A LIFETIME MEMBER TODAY!

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2024 ANNUAL PLANNING

The UPEEEAAI Board of Trustees held its 2024 Annual Planning session at Meralco PowerTech, located at the Meralco Operating Center on Ortigas Avenue, Pasig City, on April 20, 2024. PowerTech serves as the R&D arm of Meralco.

Annual Planning is crucial for translating the Association's strategic long-term goals into actionable objectives. This year's primary goals are to: (1) provide meaningful opportunities for alumni, both nationwide and worldwide, to engage and connect with UPEEEAAI through participation, volunteerism, and philanthropy; (2) foster purposeful student relationships and engagement that generate career-launching connections and build lifelong commitment to the university; and (3) sustain strategic partnerships through collaboration across the Institute and the University.

To efficiently and effectively achieve these goals, the trustees formed seven committees: Membership, Communication, Finance, Awards and Recognitions, Project Development, Homecoming, and Elections. Each committee presented proposals for the year, outlining their strategic initiatives, objectives, assessment of current conditions, and anticipated outcomes. Notable proposed projects include: (1) accredited Continuing Professional Development (CPD) programs, (2) group health insurance for alumni, faculty, staff, and dependents, and (3) educational support for EEE students.

To conclude the annual planning session, the trustees toured PowerTech, where the idea of hosting a technical convention at the site was proposed.



UPEEEAAI LIFETIME MEMBERS, PLEASE ANSWER OUR HMO SURVEY



[HTTPS://ALUMNI.EEE.UPD.EDU.PH/UPEEEAAI-SURVEY-AND-PERSONAL-DETAILS-UPDATE/](https://alumni.eee.upd.edu.ph/upeeeaaai-survey-and-personal-details-update/)

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59. Warry Chris B. ROMERO, BS Electronics and Communications Engineering
60. Zoila Mari C. SABULAO, BS Electrical Engineering
61. Aileen P. SANTOS, BS Electronics and Communications Engineering
62. Michaelangelo A. SERFICA, BS Computer Engineering
63. Ma. Dolores D. SERRANO, BS Electronics and Communications Engineering
64. Paulo B. SORIÁ'O, BS Electrical Engineering
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73. Alvin C. VALERA, BS Computer Engineering
74. Marlon B. VERDAN, BS Electronics and Communications Engineering
75. Rachel P. VILLACORTA, BS Computer Engineering
76. Paul Vijay C. VILLANUEVA, BS Computer Engineering
77. Vincent III O. YUSON, BS Electrical Engineering
78. Radwin M. ZAGALA, BS Electrical Engineering

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3. Bienvenido R. ABAYARI, BS Electrical Engineering
4. Eusebio Eduardo O. BORJA, BS Electrical Engineering
5. Edwin S. CASTRO, BS Electrical Engineering
6. Wilfredo Alexei T. CAMACHO, BS Electrical Engineering
7. Roberto L. CASIANO, BS Electrical Engineering
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9. Demetrio P. CRISOSTOMO, BS Electrical Engineering
10. Ericson F. CRUZ, BS Electrical Engineering
11. Eduardo M. ESPANOLA, BS Electrical Engineering
12. Bernard H. FET, BS Electrical Engineering
13. Robert Joseph C. GARCIA, BS Electrical Engineering
14. Ruben D. GARCIA, BS Electrical Engineering
15. Bayani B. GOLECRUZ, BS Electrical Engineering
16. Arnel G. LAMPA, BS Electrical Engineering
17. Manuel Gregorio S. LANSANG, BS Electrical Engineering
18. Belen P. LAURENTE, BS Electrical Engineering
19. Dominador P. LEONIDA III, BS Electrical Engineering
20. Gerardo Doroteo V. LOZADA, BS Electrical Engineering
21. Emmanuel A. MANDAC, BS Electrical Engineering

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24. Lester C. MARINAS, BS Electrical Engineering
25. Ricardo Pelayo R. MARCELO, BS Electrical Engineering
26. Manolo Mariano M. MELGAREJO, BS Electrical Engineering
27. Achilles F. MENDOZA, BS Electrical Engineering
28. Miguel M. MENDEZONA, BS Electrical Engineering
29. Peter N. MEJORADA, BS Electrical Engineering
30. Benjamin D. ONG, BS Electrical Engineering
31. Cecilio M. ORTIZ, BS Electrical Engineering
32. Miguel Gabriel P. PICACHE, BS Electrical Engineering
33. Davar A. PISHVA, BS Electrical Engineering
34. Raymundo P. REYES, BS Electrical Engineering
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36. Mario Jr. D. SAN DIEGO, BS Electrical Engineering
37. Manuel C. TIAMZON, BS Electrical Engineering
38. Robert B. TITULAR, BS Electrical Engineering
39. Lorenzo Maximo J. TORRES, BS Electrical Engineering
40. Augusto Manuel C. VERZOSA, BS Electrical Engineering
41. Roy Cesar R. VILLANUEVA, BS Electrical Engineering
42. Jerome T. WU, BS Electrical Engineering

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3. Stephen L. CO, BS Electrical Engineering
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5. Hermie P. DEL ROSARIO, BS Electrical Engineering
6. Amando R. FLORES, BS Electrical Engineering
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11. Robert LEE, BS Electrical Engineering
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13. Conwes S. LIM, BS Electrical Engineering
14. Leo T. MONTEJO, BS Electrical Engineering
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21. Carmelo L. ROYECA, BS Electrical Engineering
22. Angelito S. SAMANIEGO, BS Electrical Engineering
23. Rafael D. SANDOVAL, BS Electrical Engineering
24. Edgar F. SORIA, BS Electrical Engineering
25. Alfredo C. SUVA, BS Electrical Engineering
26. Reynaldo D. TUAZON, BS Electrical Engineering
27. Edwin T. UY, BS Electrical Engineering

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4. Prudencio G. ESQUIVEL, BS Electrical Engineering
5. Rosalio M. GOMEZ, BS Electrical Engineering
6. Edgardo S. JUAN, BS Electrical Engineering
7. Renato L. LUGTU, BS Electrical Engineering
8. Luis T. NERY, BS Electrical Engineering
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10. Rene V. SANTOS, BS Electrical Engineering
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12. Guido H. SUAREZ, BS Electrical Engineering
13. Renato C. SUNICO, BS Electrical Engineering
14. Pedro A. TAN, BS Electrical Engineering
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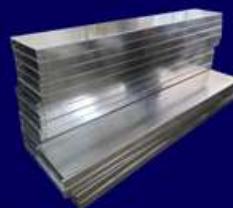
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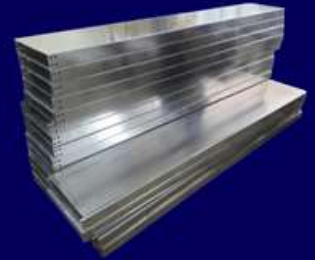
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Brand: LINKWELL



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Diameter: 22mm and 18mm Color: Green and Red
Input Voltage: 220V/AC and 120V/AC/DC
Brand: LINKWELL



CAM SWITCH (Circuit Breaker Control Switch)
Rating: DC 125A 20A
Features: Pulling up & return, 3-Stage, 60° Transfer angle, Pistol Handle Type
IP 56 (Waterproof Type)
Brand: YS, KOREA



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Spring Return (Normally Open/Normally Closed)
Color: Red AC 240V/3A IEC60947-5-1
Brand: LINKWELL



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Available in compact and modular type. Voltage ratings: up to 36kV. With current up to 630A. For limited space of electrical room.
Brand: EKOSINIRLI, TURKEY; SAREL, ITALY



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Current: 230-400V; upto 6300A
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- Harmonics Filtering

Brand: ELCO, MALAYSIA



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Emergency Restoration System, or ERS, is an advanced and rapid deployment solution for restoring electrical power in the event of widespread outages caused by storms, natural disasters, or other emergencies. The ERS is designed to help utilities and power providers quickly and efficiently restore electricity to affected areas, minimizing downtime and inconvenience for customers. Brand: LINDSEY, USA

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OVERHEAD/ UNDERGROUND DISTRIBUTION, METERING POLE, FIRST PRIVATE POLE



SF6 OUTDOOR LOAD BREAK SWITCH

Available in 24kV and 36kV, 60Hz Rated up to 630A. Easy Installation.
- SF6 Insulated, Spring Charge.
- Able to perform on-load breaking
Used in FIRST PRIVATE POLE
Brand: CONTACTPLASMA, ITALY



MV FUSE DISCONNECT

Fuse ratings up to 36kV, 60Hz. Current Rated up to 200A. Type-Tested, 99.9% Silver Cut-out. Optical Features for outdoor installation. Brand: Fuse Base - ITALWEBER, ITALY
Fuse - INTERTEKNIK, TURKEY



OUTDOOR CURRENT AND POTENTIAL TRANSFORMER

Available in 15kV - 36kV, with ERC, Snicker and last report Brand: ESIT ALCE, TURKEY



MV SWITCHGEAR COMPONENTS MAJOR COMPONENTS AND ACCESSORIES



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VACUUM CIRCUIT BREAKER

Available up to 24kV, 60Hz Rated Current up to 2500A. Compact Design, Have built-in Capacitance Divider and Space Heater. Brand: SAREL, ITALY



POWER FUSE

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Covers a wide range of cable sizes with a single product reliability for installation in Harsh Environments. No Expiry date Up to 36kV & 240mm diameter. Brand: ETELEC, ITALY



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with IEC-ANALOG 100A Switch. Ratings from 20 A to 1600 A Available in 2,3-4 poles. Short circuit breaking capacity up to 70kA Wide range of accessories Complies with EN-60947-2 Brand: SIGMA, TURKEY



MINIATURE CIRCUIT BREAKER

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ATS BREAKER TYPE

From 100 A to 800 A. Automatic Transfer from network to generator. Short circuit breaking capacity up to 65kA. Brand: SIGMA, TURKEY



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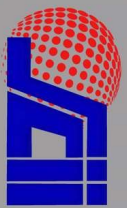
Voltage rating: 27kV & 38kV Frequency rating: 50/60Hz Current rating: 630/800A Compatible with controller or relays with other brands Brand: SOJO, BEIJING



PAD MOUNTED SWITCHGEAR

Compact Type Tested Gas Insulated Switchgear for Outdoor. Rated Voltage: Up to 24kV Rated Current: Up to 630A Available in different configurations upto 1-4 IN/OCT Configurations Brand: SAREL, ITALY

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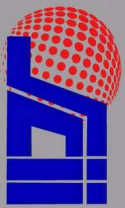
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*The famous monkeys of Ambuklad come down from the mountains
Dec. 16, 1978*



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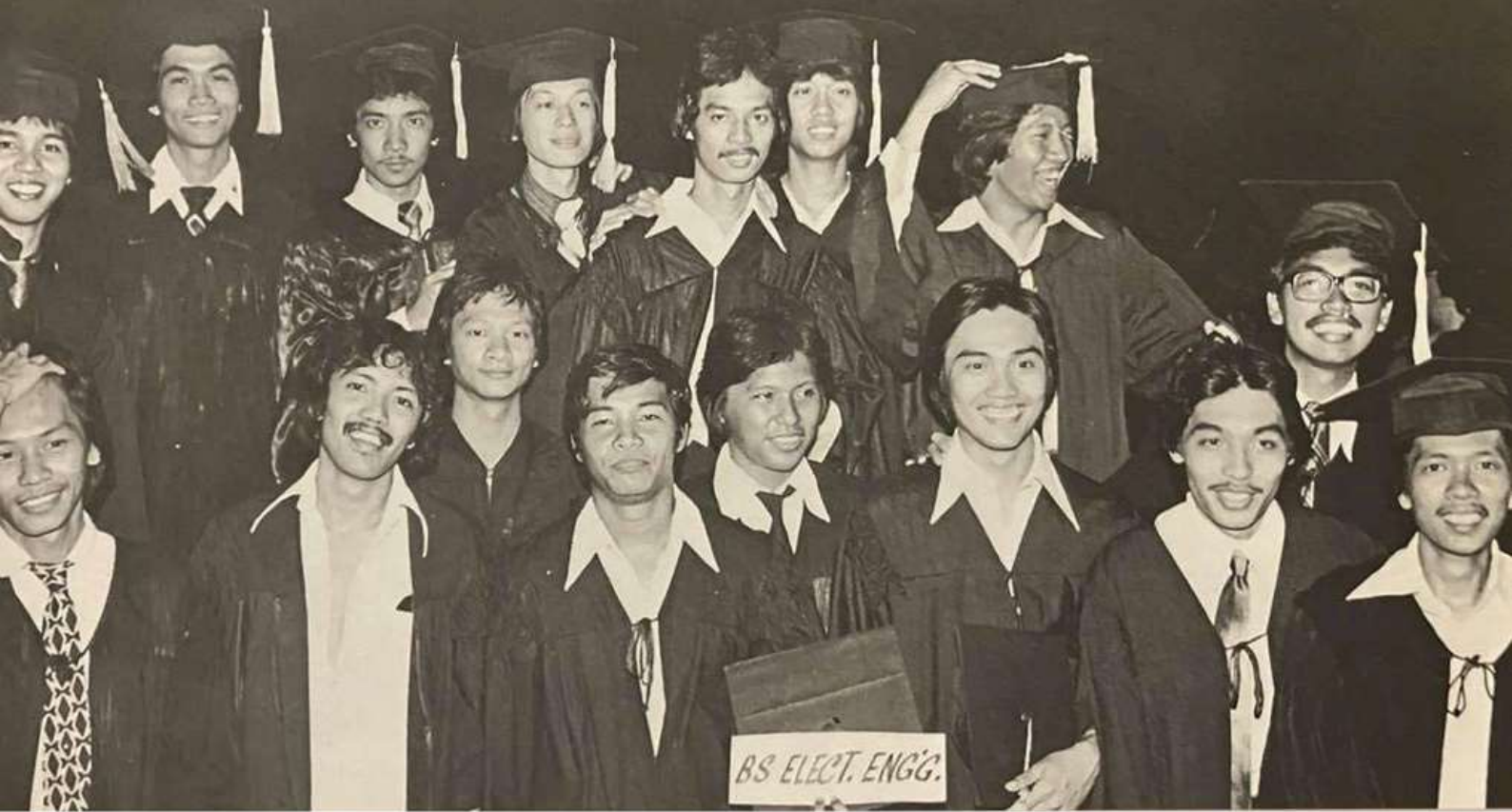
JOSEPH YAE

from
EE Batch 1979

ENG NA ENG



Five years of EE (or more, he, he) is not a joke.



...NOON...

Greetings from:

Chicho Mantaring, BSEE 1978

Riza Mantaring, BSEE cl 1982

Tina Mantaring, BSCoE scl 2009



Greetings from EE 80 & 82!



Dan Alcasid ('80)



Dodgie Arevalo ('80)



Oca Betita ('80)



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Allan Dumaguing ('80)



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Ret Tongco ('80)

Cheers from EE 80 & 82!



Cheers from EE 80 & 82!



***Congratulations
to the Jubilarians!***

**From:
Jose Niño Monje BS EE 1999
Sheryll De Guzman-Monje BS ECE 1999**

***Congratulations
to the Jubilarians!***

**From:
Golden Jubilarians Batch '74**

***Cocoy Mami Pares
Steak & Chops***



Visayas Avenue,
Quezon City, Philippines

***Greetings to the
EEE Alumni!***

**From:
Anand Mahtani**

The UPEE BATCH of 1989



...the last of the 80s, bore witness to the waning years of a tumultuous era—the martial law years—and the dawn of a new era in our nation's history—the EDSA People Power Revolution, coup d'etats, the Mt. Pinatubo eruption, and the Eraserheads. This batch saw the transition from partylines to cellphones, from Netscape to Google, and from Betamax to streaming.

Hailing from the lush mountains of Baguio to the bustling streets of Manila, the sun-soaked beaches of Bohol and Cebu to the vibrant city of Iligan, these young individuals brought dreams as diverse as the landscapes they called home. They forged an unbreakable bond that would withstand the tides of time and change.

In the classrooms, they delved into the profound realms of electromagnetics, quantum mechanics, and relativity. Guided by experts in their fields, they mastered the diverse domains of electrical engineering—power systems, electronics, communication, computer engineering, and control systems—each area an essential cog in the machinery of modern innovation. Their academic journey extended into specialized electives, where they explored cutting-edge subjects such as Digital Image Processing and Robotics, gaining insights into the technologies shaping the future. From the simplicity of Ohm's Law and Kirchhoff's Laws to the elegance of Maxwell's Equations and the practical brilliance of Thevenin's Theorem, they learned the principles that govern electrical systems and applied them, transforming abstract theory into tangible progress.

Outside the confines of the classroom they pursued their own passions. It was the decade of new wave and alternative music, and songs of U2, New Order, and The Dawn tore through an otherwise cramming induced silence in their respective houses and dorm rooms. With the NBA reaching new heights in popularity and everyone wanting to be Jordanesque, games of basketball at Molave or at the other dorm courts were squeezed in between classes or right before the lethargic trip home.

Countless late nights were spent huddled in the EEE labs, armed with the then-cutting-edge technology of floppy disks, and nourished by fishballs, kikiam, and deep fried egg sandwiches from Mang Larry. Immersed in the evolving landscape of computer science, they grappled with complex concepts like data structures and pointers, eagerly harnessing the transformative power of the digital age. Despite working with limited EEPROM-based microcontrollers, they persevered, finding ingenious ways to solve intricate computational problems involving the accumulator, instruction register, and program counter. With sharp minds and unwavering determination, they meticulously assembled intricate electronic circuits on breadboards, carefully connecting operational amplifiers and digital components - transforming theory into functional designs.

We are UPEEE Batch 1989—a shining example of resilience, unity, and the power of friendship. We have travelled far but our journey is not yet done. As we continue our journey in traversing the realms of academia, industry, and the world at large, we carry with us the values, knowledge, and camaraderie forged within the hallowed halls of our alma mater. The best is yet to come.



Modern Algebra and Trigonometry Third Edition

1994 BLOCK

G9

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Vance

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lok

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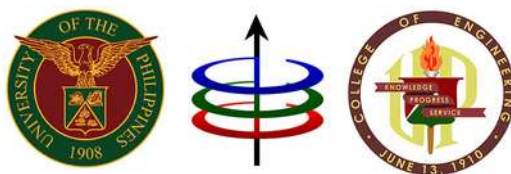
joel d.a.

jessie

ochee

gelo

**We are intentionally leaving this page blank
as a reminder to continuously write our story
of a united community**



**Greetings from the fine men and women of the
1994 Block G-9**

Greetings from EEE BLOCK G7 1994

»» Control Systems Engineer. Happily married to Mylene and proud father to twins Sofia and Clare and only son Ben, who eat sinigang and dinuguan for extra giting at tapang for their teenage years. Undaunted by koalas and kangaroos because our blood is maroon, living in Perth, Western Australia.

Bien Peñaranda



»» I began as a computer engineering major, but it didn't take long to realize coding wasn't my love language. So, I switched to Mass Comm, thinking I'd be the next big name in media – but somehow ended up in HR instead. Fast forward to now, I've been living in Dubai for 16 years with my husband and daughter, heading HR for the Middle East and Asia at an international energy company. Life has a way of rewriting your script and the plot twists are the best part of the story.

Therese Trinidad



»» This is Cecille Alcalde-Galliguez of Quezon City, working at Accenture as an Information Security Consultant. I am happily married to my college sweetheart Riemann (dormmate from Molave), and we have two beautiful ladies Danielle and Lana studying at Ateneo. We also have a bratty doggie named Mochi. My hobbies include watching kdramas and fangirling over BTS. ☺

Cecille Alcalde-Galliguez



»» Haydee Refareal-Enoveso of Block G-7 here. I migrated to the US in 2002 and have lived in the San Francisco Bay Area since then. I have switched to the field of education. I have been a special educator for over 20 years here in San Jose. It has been rewarding to work with students with special needs and at-risk youth in the Bay Area. Aside from teaching, I am raising my two daughters with my husband, Rei. Our girls keep us busy with after-school activities and musical performances. I love spending time at the beach and watching Korean dramas during my free time.

Haydee Refareal-Enoveso

»» I am a Marketing Manager at a Fortune 500 technology company with prior experience as a Control and Automation Engineer, Quality and Reliability Engineer, and university Engineering Faculty in Manila. I hold an MBA and enjoy endurance cycling in my free time. I'm married to Tin and have two daughters, Megan and Zoe.

Buddy Ilaa



»» I am Ninoy, a Sr. Manager at a global shared service center, living in QC with my wife and 4 kids. I am also a licensed attorney, aiming to return to marathons and complete my first standard distance triathlon.

Ninoy Valenzuela

»» Lesly Endrinal here, reaching you from Sunny San Diego. I am currently working at Google as a Silicon Failure Analysis Engineering Lead and my expertise now is more on semiconductors. Prior to Google, I have worked in Qualcomm, NXP Semiconductors, Intel and Analog Devices. I am currently married to my partner Francesca and we have a lovely baby dog named Bamboo. My hobbies now are hiking, fitness and traveling.

Lesly Endrinal



»» Hello I am Alex Comia and I am currently working as a Cybersecurity Consultant for a large oil and gas company. I previously held various engineering and management positions in a Fortune 500 process automation company for 21 years. I was part of UP Engineering Basketball Varsity team for 5 years and to this day I still play the game I love and I also coach young kids.

Alex Comia



»» I'm Raquel David-Garcia (Raki to those who know me). I'm now based in Munich, Germany together with my husband Lennard and our 3 daughters. After graduation, I worked as a Software Design Engineer for various R&D companies specializing in DSP and ASIC. Currently, I'm a freelance web developer, working on Shopify stores for various clients. I love to play video games, watch football, go hiking and enjoy the outdoors with a cup of coffee or a mug of beer. Prost!

Raquel David-Garcia



Greetings from 1994 Block G-10





Greetings from

Ferdinand R. Santos, EE 87

Ma. Aurora C. Jurado-Santos, EE 86

Carlos Benedict J. Santos, EE, ECE 2013

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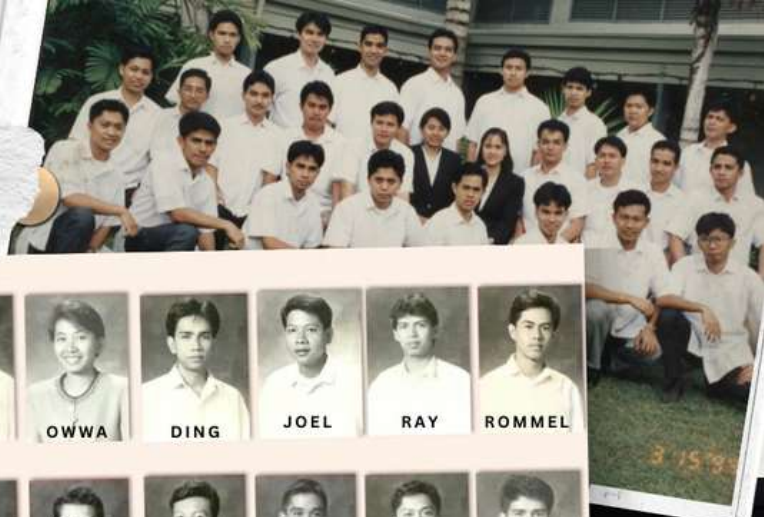
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