

**IEEE
HNICEM
2021**

CERTIFICATE OF PRESENTATION

This certificate is proudly presented to

**Robert R. Bacarro, Vrian Jay V. Ylaya, Vicente Z. Delante and
Ryan Rhay P. Vicerra**

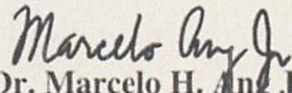
Surigao State College of Technology, De La Salle University
who have participated and successfully completed their presentation entitled

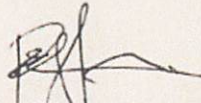
**Analysis of Water Leaking Pipes Using Impulse Radar: A Case
Study in Surigao City, SDN Philippines**

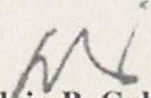
in the 13th International Conference on Humanoid, Nanotechnology, Information
Technology, Communication and Control, Environment, and Management (HNICEM 2021).

Full Online Conference
Manila, Philippines
November 28-30, 2021




Dr. Marcelo H. Ang, Jr.
Organizing Chair


Dr. Elmer P. Dadios
General Chair


Dr. Alvin B. Culaba
Organizing Chair

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Ryan Rhay P. Vicerra**

Surigao State College of Technology, De La Salle University

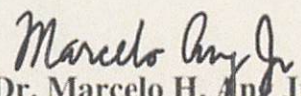
who have participated and successfully completed their presentation entitled

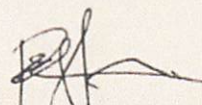
**Development and Analysis of Footstep Power Harvester – A
Case Study for the Viability Of the Device in Surigao City**

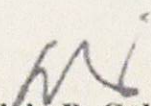
in the 13th International Conference on Humanoid, Nanotechnology, Information
Technology, Communication and Control, Environment, and Management (HNICEM 2021).

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Dr. Marcelo H. Ang Jr.
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General Chair


Dr. Alvin B. Culaba
Organizing Chair



REPUBLIC OF THE PHILIPPINES
BATANGAS STATE UNIVERSITY
Leading Innovations, Transforming Lives

ICIEE2021

International Conference
on Innovations
in Engineering Education
2021

Engineering Educators:
Active Drivers of Innovation

Certificate of Participation

is granted to

Engr. vicente delante

for active and invaluable participation during the conduct of
INTERNATIONAL CONFERENCE ON INNOVATIONS IN ENGINEERING EDUCATION 2021,
organized by the BatStateU Center for Innovation in Engineering Education
on November 10-11, 2021 via Zoom Webinar.

Dr. TIRSO A. RONQUILLO
University President



Republic of the Philippines
Institute of Electronics Engineers of the Philippines
ILIGAN BAY CHAPTER (I-APO NO.: 27)

Awards this

Certificate of Participation
To

Engr. INGRID B. ESCABAL

For actively participating in the
Technical Seminar with the theme,
“RF Transceiver Design and RF IC Design Consideration”

Given this 23rd day of April, 2019
Mindanao State University-Iligan Institute of Technology
Tibanga, Iligan City

Credited with **16** CPD Units

Engr. MERCEDENIA A. LAMBINO, PECE

Governor, IECEP-IBC

Engr. JENNIBETH F. GATAL, ECE

Secretary, IECEP-IBC



Mindanao State University Iligan Institute of Technology
College of Engineering and Technology

in partnership with

Microelectronics Laboratory and
Philippine Council for Industry, Energy and Emerging
Technology Research and Development (PCIEERD)

awards this

Certificate of Completion

to

ENGR. INGRID B. ESCABAL

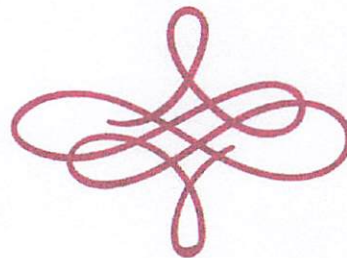
for having attended and participated in the lecture and laboratory sessions for

**SYNOPSYS TRAINING ON
CLOUD-BASED SYNTHESIS USING DESIGN COMPILER,
ICC BLOCK LEVEL IMPLEMENTATION
SoC DESIGN PLANNING INTEGRATION**

held on **April 8 to April 17, 2019**

at Microelectronics Laboratory, College of Engineering and Technology,
MSU-IIT, Iligan City Philippines

Given this 17th day of April 2019 at MSU-IIT, Iligan City, Philippines



MR. NICHOLAS YEE WEE HAN

Trainer, Synopsys

PROF. ALLENN C. LOWATON

Chairman, Department of Electrical
Engineering and Technology

ATTY. EDGAR ALAN A. DONASCO
Dean, College of Engineering & Technology



Mindanao State University Iligan Institute of Technology
College of Engineering and Technology
Microelectronics Laboratory

in partnership with

Philippine Council for Industry, Energy and Emerging
Technology Research and Development (PCIEERD)

awards this

Certificate of Appreciation

to

ENGR. INGRID B. ESCABAL

in grateful acknowledgment for his/her unwavering support
and dedication as a **facilitator** during

**SYNOPSYS TRAINING ON
CLOUD-BASED SYNTHESIS USING DESIGN COMPILER**

held on April 8 to April 10, 2019

at Microelectronics Laboratory, College of Engineering and Technology,
MSU-IIT, Iligan City Philippines

Given this 17th day of April 2019 at MSU-IIT, Iligan City, Philippines

MR. NICHOLAS YEE WEE HAN

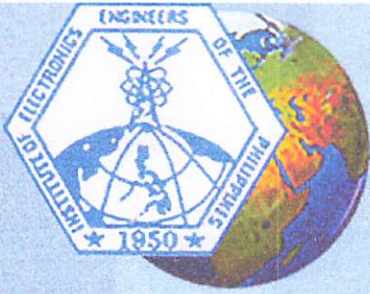
Trainer, Synopsys

PROF. ALLENN C. LOWATON

Chairman, Department of Electrical
Engineering and Technology

ATTY. EDGAR ALAN A. DOLASCO

Dean, College of Engineering & Technology



IECEP

Institute of Electronics Engineers of the Philippines, Inc.

The Integrated Accredited Professional Organization of Professional Electronics Engineers, Electronics Engineers and Electronics Technicians by the Professional Regulations Commission, Republic of the Philippines (I-APO No. 03) CPD Provider Accreditation No.: 2009-001

presents this

CERTIFICATE OF PARTICIPATION

to


For having attended the
68th Annual Mid-year General Membership Meeting and Convention
with the theme:

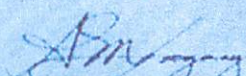
"Electronics Engineering Profession in the Digital World"

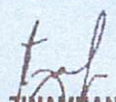
held at **Legazpi City Convention Center,**


Airport Road, Legazpi City

on **May 17-19, 2018.**


Engr. **ARIEL H. PADILLA, CESO V, PECE**
Governor, Bicol Chapter


Engr. **ANNE MARIE M. LAGMAY, PECE**
Secretary General, IECEP, Inc.


Engr. **AGAPITO T. ZINAMPAN, JR., PECE, ACPE**
Vice-President for Education, IECEP, Inc.
2018 Midyear Convention Chairman


Engr. **RAYMOND C. MEDINA, PECE, ASEAN-APEC, ACPE**
National President, IECEP, Inc.



IECEP

Institute of Electronics Engineers of the Philippines, Inc.

The Integrated Accredited Professional Organization of Professional Electronics Engineers, Electronics Engineers and Electronics Technicians by the Professional Regulations Commission, Republic of the Philippines (I-APO No. 03) CPD Provider Accreditation No.: 2009-001

presents this

CERTIFICATE OF ATTENDANCE

to

INGRID B. ESCABAL

Credited with 15.0 CPD points

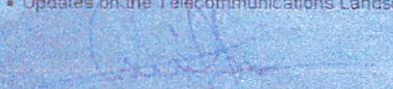
for having attended the


IECEP 2018 MID-YEAR GENERAL ASSEMBLY & CONVENTION

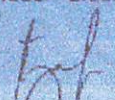
held at Legazpi City Convention Center, Legazpi City, Albay on May 17 - 19, 2018

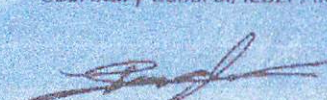
SEMINARS ATTENDED:

- Applied Problem Solving and Decision making in broadcast
- Cybersecurity
- Design Thinking Skills
- Digital Terrestrial Television Broadcasting Migration: Comprehensive Nationwide Implementation
- Digital Transmission DTT Coverage Planning
- Digital World of Biomedical Engineering Practitioners
- Distributed Control System
- Fiber to the home (Design and Implementation)
- IP based Audio-Video HELP points intercom + Security Systems integration
- Intelligent Cities: Government Digital Transformation
- Powering the Digital World
- PRC SECE HOUR
- Project Management Overview
- Tour
- Updates on the Telecommunications Landscape: The Philippine Electronics Code (PEC) in Focus


Engr. **ARIEL H. PADILLA, CESO V, PECE**
Governor, IECEP-Bicol Chapter

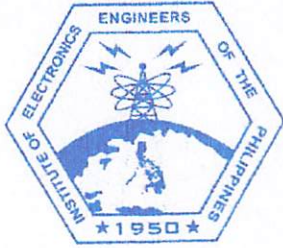

Engr. **ANNE MARIE M. LAGMAY, PECE**
Secretary General, IECEP, Inc.


Engr. **AGAPITO T. ZINAMPAN, JR., PECE, ACPE**
Vice-President for Education, IECEP, Inc.
2018 Midyear Convention Chairman


Engr. **RAYMOND C. MEDINA, PECE, ASEAN-APEC, ACPE**
National President, IECEP, Inc.



* 0 0 5 5 - 1 4 4 8 8 *



Republic of the Philippines
Institute of Electronics Engineers of the Philippines
ILIGAN BAY CHAPTER (I-APO NO.: 27)

awards this

CERTIFICATE OF PARTICIPATION

to

Engr. INGRID B. ESCABAL

for actively participating during the
Technical Seminar with the theme,
“Emerging Technologies on 5G and Internet of Things (IOT)”

Given this 20th day of June, 2018
COET Amphitheater, MSU-Iligan Institute of Technology
Tibanga, Iligan City

Credited with 8 CPE units

Engr. DENNIS ANTHONY D. EMPUERTO, PECE

Governor, IECEP-IBC


Engr. NIEVA M. MAPULA, PECE

Secretary, IECEP-IBC

IC CEREC 2018

CERTIFICATE OF APPRECIATION

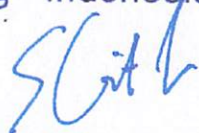
This certificate is presented to

Ingrid B Escabal

Whose paper entitled "Design of Single Poly Flash Memory
Cell with Power Reduction Technique at Program Mode in 65Nm CMOS Process"

for Actively participated in 4th International Conference on Control,
Electronics, Renewable Energy, and Communications 2018
as **Paper Presenter**

Granted on this day, 5 December 2018
Bandung - Indonesia



Sigit Yuwono, Ph.D
Chair, ICCEREC 2018

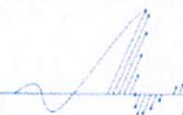
Sponsored and Organized by:



Fakultas Teknik Elektro
School of Electrical Engineering
Telkom University

IEEE

Signal Processing Society
Indonesia Chapter



CERTIFICATE OF ATTENDANCE



This is to certify that

Ingrid Escabal

has successfully attended the 3rd INTERNET OF THINGS SUMMIT PHILIPPINES on
August 18, 2018 at the Megatrade Hall 3, SM Megamall, Mandaluyong City



A handwritten signature in red ink, appearing to read 'Elaine B. Cedillo', written over a horizontal line.

Elaine B. Cedillo
Project Head & Co-Founder
Redwizard Events Technology

CONNECT.INNOVATE.TRANSFORM

XINYX DESIGN CONSULTANCY AND SERVICES INCORPORATED

Certificate of Appearance

This is to certify that

INGRID B. ESCABAL

has attended a 3-day (August 15-17, 2018) review, assessment and evaluation of the design processes and consultation with Xinyx Design Consultancy and Services Incorporated, for the uC-IC design project, funded by the DOST – PCIIEERD.

Given this 17th of August 2018 at Xinyx Design Consultancy and Services Incorporated,
Alabang-Zapote Road, Muntinlupa City, 1780 Metro Manila, Philippines.


CHRISTENSEN ARANDILLA

Design Engineer

Xinyx Design Consultancy and Services Incorporated



INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES, INC.

The Integrated Accredited Professional Organization
of Professional Electronics Engineers, Electronics Engineers and Electronic Technicians
by the Professional Regulations Commission of the Republic of the Philippines (I-APO No.:05)
CPE Provider Accreditation No.: 2009-001
Iligan Bay Chapter (I-APO No.: 27)

Presents this

CERTIFICATE OF PARTICIPATION

to

Engr. Ingrid B. Escabal

for actively participating in the **TECHNICAL SEMINAR**
with the topic **“Operational Amplifier Design:
Miller OTA and Feedback Stability”**

Given this 24th day of January, 2016
At Microelectronics Laboratory, MSU-IIT
Tibanga, Iligan City

Credited with 16 CPE units


Engr. ADRIAN M. PARCON, PECE

Governor, IECEP-IBC


Engr. NIEVA M. MAPULA, ECE

Secretary, IECEP-IBC

INSTITUTE OF ELECTRONICS ENGINEERS

OF THE PHILIPPINES, INC.

The Integrated Accredited Professional Organization
of Professional Electronics Engineers, Electronic Technicians
by the Professional Regulations Commission of the Republic of the Philippines (I-AP0 No.:05)
CPE Provider Accreditation No.: 2009-001
Iligan Bay Chapter (I-AP0 No.: 27)

Presents this

CERTIFICATE OF PARTICIPATION

to

Engr. Ingrid B. Escabal

for actively participating in the **TECHNICAL SEMINAR**
with the topic **"Full-Custom IC Design Layout"**

Given this 25th day of November, 2016
At Microelectronics Laboratory, MSU-IIT
Tibanga, Iligan City

Credited with **20 CPE units**

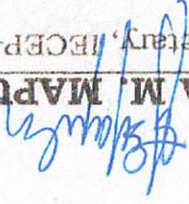
Engr. ADRIAN M. PARCON, PECE

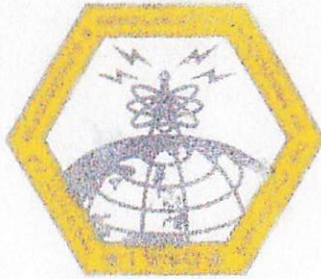
Governor, IECEP-IBC



Engr. NIEVA M. MARTIA, ECE

Secretary, IECEP-IBC





INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES, INC.

The Integrated Accredited Professional Organization
of Professional Electronics Engineers, Electronics Engineers and Electronic Technicians
by the Professional Regulations Commission of the Republic of the Philippines (I-APO No.:05)
CPE Provider Accreditation No.: 2009-001
Iligan Bay Chapter (I-APO No.: 27)

Presents this

CERTIFICATE OF PARTICIPATION

to

Engr. Ingrid B. Escabal

for actively participating in the **TECHNICAL SEMINAR**
with the topic **“Operational Amplifier Design: Compensation, Compensated
Miller OTA Design and Hands-on design of a Two-Stage Miller OTA”**

Given this 30th day of January, 2016
At Microelectronics Laboratory, MSU-IIT
Tibanga, Iligan City

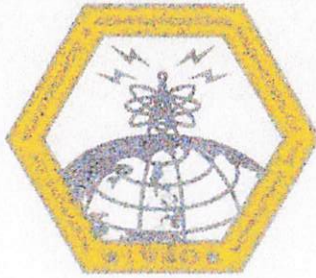
Credited with 8 CPE units


Engr. ADRIAN M. PARCON, PECE

Governor, IECEP-IBC


Engr. NIEVA M. MAPULA, ECE

Secretary, IECEP-IBC



INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES, INC.

The Integrated Accredited Professional Organization
of Professional Electronics Engineers, Electronics Engineers and Electronic Technicians
by the Professional Regulations Commission of the Republic of the Philippines (I-APO No.:05)
CPE Provider Accreditation No.: 2009-001
Iligan Bay Chapter (I-APO No.: 27)

Presents this

CERTIFICATE OF PARTICIPATION

to

Engr. Ingrid B. Escabal

for actively participating in the **TECHNICAL SEMINAR**
with the topic **“Operational Amplifier Design: Introduction and
Multistage Amplifiers”**

Given this 17th day of January, 2016
At Microelectronics Laboratory, MSU-IIT
Tibanga, Iligan City

Credited with 4 CPE units


Engr. ADRIAN M. PARCON, PECE

Governor, IECEP-IBC


Engr. NIEVA M. MAPULA, ECE

Secretary, IECEP-IBC



Iligan Institute of Technology
of the Mindanao State University
College of Engineering



awards this

Certificate of Appreciation

to

Engr. Ingrid B. Escabal

for her support and dedication as training assistant on
FULL-CUSTOM IC DESIGN LAYOUT
held on November 21 to November 25, 2016

Given this 25th day of November, 2016
at Microelectronics Laboratory, College of Engineering,
MSU IIT, Iligan City

ATTY. EDGAR ALAN A. DONASCO

Dean, College of Engineering

ENGR. JEFFERSON A. HORA, PECE

Chairman, EECE Department



INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES, INC.

The Integrated Accredited Professional Organization
of Professional Electronics Engineers, Electronics Engineers and Electronic Technicians
by the Professional Regulations Commission of the Republic of the Philippines (I-AP0 No.:05)
CPE Provider Accreditation No.: 2009-001
Iligan Bay Chapter (I-AP0 No.: 27)

PRESENTS THIS

CERTIFICATE OF ATTENDANCE

TO

INGRID B. ESCABAL

for actively participating in the
Technical Seminar

Given this 28th day of March 2015
At Mar Ro's Cocina, Garcia Bldg., Quezon Ave.,
Iligan City

Credited with **4 CPD** units

- Technical Topics:
- ECE Board Exam Awareness
 - OPGW Live-Line Installation Methodology


ENGR. NIEVA M. MAPULA, ECE

Secretary, IECEP-IBC


ENGR. ADRIAN M. PARCON, PECE

Governor, IECEP-IBC



Republic of the Philippines
Iligan Institute of Technology
of the Mindanao State University
College of Engineering



Certificate of Attendance

is presented to

Escabal, Ingrid B.

for having attended and participated in the lecture and laboratory
sessions of the course entitled

Wireless Network Sensors

Sponsored by the **Department of Science and Technology –
Engineering Research and Development for Technology (DOST-ERDT)**
held from June 22 – July 17, 2015 at the Microelectronics Laboratory, MSU-IIT.

Given on this **17th day of July 2015** at the
College of Engineering, MSU-IIT, Iligan City

Prof. Eryk Dutkiewicz
Lecturer, Visiting Professor

Engr. Jefferson A. Hora, PECE
Chairman, EECE Dept.



Mindanao State University
Iligan Institute of Technology
College of Engineering



awards this

Certificate of Appreciation

to

Ingrid B. Escabal

for her support and dedication as training assistant on

INTRODUCTION TO ANALOG IC DESIGN
held on **July 27 to August 1, 2015**

Given this 1st day of August, 2015
at Microelectronics Lab, 2nd Flr., COE Bldg,
MSU-IIT, Iligan City


ATTY. EDGAR ALAN A. DONASCO

Dean, College of Engineering


ENGR. JEFFERSON A. HORA, PECE

Chairman, EECE Department



Iligan Institute of Technology
of the Mindanao State University
College of Engineering



awards this

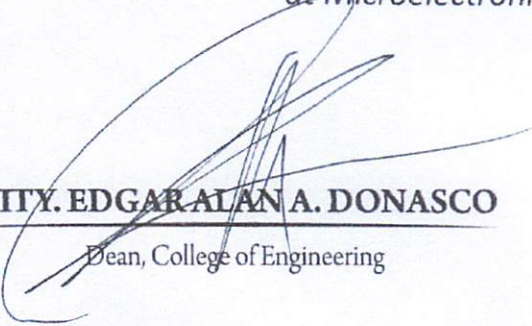
Certificate of Appreciation

to

Engr. Ingrid B. Escabal

for his/her support and dedication as training assistant on
OPERATIONAL AMPLIFIER IC DESIGN TRAINING
held on January 18 to January 23, 2016

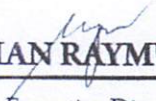
Given this 23rd day of January, 2016
at Microelectronics Laboratory, College of Engineering,
MSU IIT, Iligan City


ATTY. EDGAR ALAN A. DONASCO

Dean, College of Engineering


ENGR. JEFFERSON A. HORA, PECE

Chairman, EECE Department


CHRISTIAN RAYMUND K. ROQUE

Executive Director, PIIC



ARK ONE



KEYSIGHT
TECHNOLOGIES

CERTIFICATE OF COMPLETION

This certificate is awarded to

Ingrid Escaba

for having successfully completed the training entitled

Scope Workshop 2016: Redefining your Oscilloscope Experience

Given at North Bridgeway, Filinvest City, Alabang,

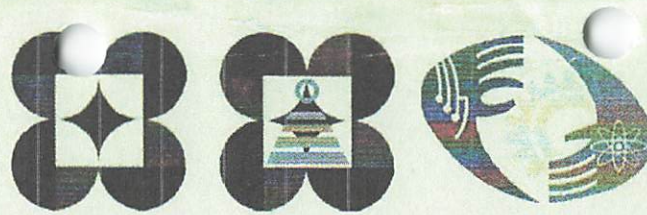
Muntinlupa Philippines 1781

on April 15, 2016.

F. Von Aquino
Fletcher Von Aquino

Electronic Measurement Group Director

Ark One Solutions, Inc.



Department of Science and Technology
Science Education Institute
Engineering Research and Development for Technology

Certificate of Participation

is given to

Ingrid Escabal

for participating in the
4th ERDT Congress with the theme of
Agriculture and Science and Technology for Inclusive Growth.

Given this 20th of July 2015
at the SMX Convention Center, Pasay City, Philippines.

Aura C. Matias
Aura C. Matias, Ph.D.

Dean, UP College of Engineering
Program Leader, Engineering Research and
Development for Technology



INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES (IECEP)
CARAGA REGIONAL CHAPTER
Butuan City, Philippines

Presents this

Certificate of Participation

to


Ingrid B. Escabal

for having satisfactorily participated in Technical Seminar on

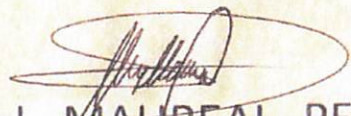
ELECTRONICS PLAN PREPARATION

held on October 11, 2014 at Big Daddy Convention Center, Butuan City

Given this 11th day of October, 2014 at Big Daddy Convention Center, Butuan City, Philippines



LAWRENCE P. SALANG, PECE
IECEP CARAGA GOVERNOR



ALEX L. MAUREAL, PECE
RESOURCE SPEAKER

8 CPE Points



ELECTRICAL AND ELECTRONICS ENGINEERING INSTITUTE
UNIVERSITY OF THE PHILIPPINES, DILIMAN



awards this

Certificate of Attendance

to

Escabal, Ingrid B.

for having attended and participated in the lecture and laboratory sessions of the course entitled

**“Synthesis of Digital Circuits and RTL-to-GDSII
Backend Design”**

*sponsored by the Department of Science and Technology
under the “Philippine Institute for Integrated Circuits” Project
held from 20 April to 1 May 2015 at the Microelectronics Power IC
Laboratory of the Mindanao State University – Iligan Institute of Technology, Iligan City.*

*Given this 1st day of May 2015 at the
Mindanao State University – Iligan Institute of Technology, Iligan City.*

MARC D. ROSALES, Ph.D.
Faculty
UP Microelectronics and Microprocessors
Laboratory

JOHN RICHARD E. HIZON, Ph.D.
Director
Electrical and Electronics Engineering Institute,
UP Diliman

LOUIS P. ALARCON, Ph.D.
Laboratory Head
UP Microelectronics and Microprocessors
Laboratory

