

## **CAPSULE CURRICULUM VITAE**

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Registered Professional Agricultural Engineer  
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### **EDUCATIONAL BACKGROUND**

2019: MS in Agricultural Engineering (Agricultural and Bio-Process Engineering), UPLB, College, Laguna

On-going – MS in Food Science and Technology, VSU, Baybay City Leyte

2010: Bachelor of Science in Agricultural Engineering, Visayas State University

### **HONORS/AWARDS RECEIVED**

Best Paper (2<sup>nd</sup>) - OPTIMIZATION OF BIODIESEL PRODUCTION FROM WASTE COOKING OIL OF VACUUM-FRIED JACKFRUIT (*Artocarpus heterophyllus* Lam.) PULP PROCESSING. 20th International Agricultural Engineering Conference and the 73rd PSABE Annual National Convention on April 22-27, 2024, Legazpi Convention Center, Legazpi City, Albay.

Best Paper – Process Optimization of Intermittently Dried Marinated Galunggong (*Decapterus macarellus* Bleeker). 3<sup>rd</sup> International STEAM Research Congress. (2019)

Best Poster - Entrainment Ratio Modelling of Ejector for Vacuum Frying System Using Numerical Approach. 3<sup>rd</sup> International STEAM Research Congress. (2019)

1<sup>st</sup> Placer – Licensure Examination for Agricultural Engineers (2010)

### **SCHOLARSHIPS**

2019 : Human Resource Development Project in Food-Related Areas through Partnership Program with Universities in ASEAN Region

2015 – 2017 : DOST – Engineering Research, Development, and Technology Scholarship

### **PUBLICATIONS**

- Ngoho, R. A., Bellen, J. A., & Cerna, J. B. (2025). Design, fabrication, and evaluation of Jackfruit (*Artocarpus heterophyllus*, Lam.) seed sheller. *International Journal of Agricultural Technology*, 21(4), 1369-1378.
- Cimafranca, L.C., Emnace, I.C., Lauzon, R.D., Cerna, J.B., Yap, W.B., Nobleza, K., & Valdevieso, L.M. (2024). Optimization of the levels of ginger extract, palm oil and glucose syrup on the sensory quality of ginger yema. *Annals of Tropical Research*, 46(1).
- Lao, C. A., & Cerna, J. B. (2021). Sensory Characteristics of Intermittently Dried Sweetened Seriales (*Flacourtia Jangomas* [Lour.] Raeusch) as influenced by Time and Temperature. *Journal of Society and Technology*, 10(1).
- Magallanes, J.N., Cerna, J.B. and Salas, F.M. (2021). Production and free radical scavenging activity of guyabano (*Annona muricata* L.) peel tea with varying levels of honey and calamansi (*Citrus fortunella microcarpa* B.) juice. *Acta Hort.* 1312, 507-514
- Baclayon, L. P., Cerna, J. B., & Cimafranca, L. C. 2019. Sensory quality of custard tart as affected by varying levels of Mabolo (*Dispyros blancoi* A. DC) Flesh. *Annals of Tropical Research* 42 (2).
- Dacera, D. P., Ramada, D. P., Salangsang, A. P., Yap, C. A. C., Cerna, J. B., & Bellen, J. A. (2019). DESIGN AND EVALUATION OF PEDAL-OPERATED COMPOSTER. *Innovative Technology and Management Journal*, 2.
- Cerna, J. B. & Elepaño, A. R. 2018. Selected Flow Property Modelling of a Water-Air Ejector Using Numerical Approach as Precursor to Shape Optimization. *Journal of Society & Technology* 8:25-32

### **PATENTS/UTILITY MODELS**

- 02018-2438 - Development of Coconut Water-based Nutritional Drench for Increased Survival and Performance of Newborn Kids (Patent)
- PH2/2019/050317 – Intermittently Dried Jackfruit (Utility Model). Publication Number: 2/2016/050317. Grant Date: 02.12.2020
- PH2/2019/050323 – A Method of Preparing Intermittently Dried Jackfruit (Utility Model). Grant Date: 30.06.2021

PH2/2020/050603 – Method of Producing Tableya-Flavored Soya Milk Beverage (Utility Model).  
Grant Date: 24.05.2021

PH2/2016/001117 - Improved Process for Producing Vacuum Fried Fruit Products (Utility Model). Grant Date:17.08.2020

**TRAINING/SEMINARS/WORKSHOPS/SYMPOSIUM ATTENDED**

1. DFSC Research Seminar. March 12, 2025. CARIM Lecture Hall, University of the Philippines Mindanao, Mintal, Tugbok District, Davao City, Davao del Sur.
2. DRIERDC Proposal Writeshop. March 4, 2025. University of Immaculate Conception, Davao City.
3. 20th International Agricultural Engineering Conference and the 73rd PSABE Annual National Convention on April 22-27, 2024, Legazpi Convention Center, Legazpi City, Albay
4. PSABE 8 Regional Convention held on March 13-14, 2024, Madison Park Hotel, Tacloban City, Leyte
5. 20th Philippine Society for Probiotics and Functional Foods, Inc. (PhilProFF) Anniversary Assembly and Scientific Convention held on October 12-13, 2023, at RDE Hall, Visayas State University, Baybay City, Leyte (Facilitator)
6. 30th National Fruit Symposium held on October 2-6, 2023 at RDE Hall, Visayas State University, Baybay City, Leyte (Presenter)
7. Enterprise Development Training on Dried Mango Processing on August 17-18, 2023. San Pedro Island, Hinunangan, Southern Leyte. (Resource Person)
8. 2023 International Food Value Chain Seminar and Workshop on May 22-25, 2023, via Virtual and limited face-to-face. (Facilitator)
9. 2022 International Food Value Chain Seminar and Workshop on September 12, 2022, via Virtual and limited face-to-face. (Facilitator)
10. 18th International Agricultural Engineering Conference and the 71<sup>st</sup> PSABE Annual National Convention on April 25-27, 2022, via Virtual Platform and limited Face to Face. (Presenter)
11. 4th International STEAM Research Congress. February 3-5, 2021. Via Online Platform. (Presenter)
12. Training on Fruit and Vegetable Processing. May 5 – 22, 2020. LGU, Baybay City, Leyte. (Resource Person)
13. 3<sup>rd</sup> International Multidisciplinary Research Conference. March 1 – 3, 2020. Leyte Normal University, Tacloban City Leyte. (Presenter)

14. Patent Search Writeshop. February 11 – 13, 2020. University of San Jose-Recoletos Main campus, Cebu City.
15. Short Course Training and Workshop on Food Value Chain. October 7 – 11, 2019. Via Online Platform. ASEAN, Ministry of Agriculture, Forestry, and Fisheries (MAFF) – Japan
16. Educational Research on Utilizing Formulation Optimization and Sensory Evaluation as Strategies in Teaching Food Processing. August 22-24, 2019. DepEd, Rizal National High School, Rizal, Dulag, Leyte. (Resource Person)
17. Region VII CRADLE Workshop-Writeshop. May 29-30, 2019. DOST 8, Palo, Leyte
18. Proposal Enhancement Writeshop. May 30-31, 2019. DOST 8, Palo, Leyte
19. 3rd International STEAM Research Congress of Food and Eating 41st Annual Conference of Ugnayang Pang-Aghamtao, Inc. August 7-9, 2019. Via Online Platform. Eastern Visayas State University, Tacloban City, Leyte
20. Joint ASEAN Cooperation on Agricultural and Biosystems Engineering (ACABE) and ASEAN Universities Consortium on Food and Agro-Based Engineering and Technology Education (AUCFA). November 5-9, 2018. Royce Hotel, Clark City, Pampanga
21. Seminar on "Let's Talk About Tableya and Chocolates". October 10, 2018. DOST 8, Palo, Leyte
22. Seminar on Food Value Chain. September 10-14, 2018. Bayfront Hotel, Cebu City.
23. 12th Agricultural Engineering Conference, 65th PSAE Annual National Convention. 26th Philippine Agricultural Engineering Week and 25th International Agricultural Engineering Conference and Exhibition. April 19 – 25, 2015.
24. Transition Course on Manifold to Quantum GIS. November 24 – 28, 2014.
25. 11th Agricultural Engineering Conference, 64th PSAE Annual National Convention. 25th Philippine Agricultural Engineering Week and 25th International Agricultural Engineering Conference and Exhibition. May 15 – 19, 2014
26. One-on-one Consultative Meeting: Seminar-Workshop on Shared-Service-Facilities. Date. DTI Provincial Office, Tacloban City, Leyte.
27. 8<sup>th</sup> PSLAB Scientific Conference: "Lactic Acid Bacteria R and D for Health and Wealth". 23<sup>rd</sup> day of- November, 2012. CCE Building, Visayas State University, Visca, Visca, Baybay, Leyte.
28. Seminar on: "Renewable Energy Source for Rural Development". 26<sup>th</sup> day of March, 2012. Philrootcrop, Visayas State University, Visca, Baybay, Leyte. Speaker: Engr. Peter Billiard
29. Student Leadership & Organization Management Seminar. October 16-17, 2009. Visayas State University Convention Center, Visca, Baybay, Leyte. Conducted by Renato Jose Maria V. Molano.

30. Seminar-Workshop on "Newsriting". 3rd day of February, 2006. Multimedia Development Center, Visayas State University, Visca, Baybay, Leyte. Prepared by Dr. Rotacio Gravoso, Facilitator.
31. Dangerous Drug Prevention Seminar. 30th day of July, 2005. Headquarter, 8th Regional Community Defense Group, Army Reserved Command (ARESCOM), Camp Downes, Ormoc City. Lt. Col. Ricardo M. Colina, Training Director.

### **RESEARCH AND EXTENSION INVOLVEMENT**

1. Development of Processing Equipment for Food and Non-Food Coconut Products. Project Leader. Funded by VSU GAA. 2020-2025
2. Development and Process Optimization of Dried and baked Coconut Food Products. Project Leader. Funded by VSU GAA. 2020-2025
3. Development of a Portable and Non-Contact Jackfruit Quality and Maturity Detector Using NIR Spectroscopy. Study Leader. Funded by VSU IP. 2021-2024
4. Development and Quality Assessment of Tableya-Flavored Soymilk. Study Leader. Funded by VSU GAA. 2019-2022
5. Foodborne Contaminants and Shelf-life of Eastern Visayas (EV) Street-vended Native Crop-based Delicacies: Determining Consumer's Willingness to Pay (WTP) for Food Safety Attributes. Study Leader. Funded by DOST NRCP.
6. VSU Food, It's SAFE!: Improvement and Sustainability of Sanitation and Safety in Food Establishments. Component Leader. Funded by VSU GAA. 2020 – 2022.

### **MEMBERSHIP IN ORGANIZATION:**

1. Banaag Visual Art Group under the Visayas State University Visual Arts Guild (VIVAG) at the Visayas State University (2005-2010).
2. Vice President of the College of Engineering and Agri-Industries (2009-2010).
3. Vice President of the Banaag Visual Arts Group (2007-2008).
4. Treasurer of the Banaag Visual Arts Group (2006-2007).
5. Member, Philippine Society of Agricultural Engineers, 2010 to present
6. Member, Philippine Society of Lactic Acid Bacteria Inc., 2012 to 2016
7. Adviser, Philippines Society of Agricultural Engineering – Visayas State University Student Chapter (PSAE-VSUSC), 2011 – 2013.
8. Adviser, Philippines Association of Food Technologist– Kappa Student Chapter (PAFT-KSC), 2011 – 2013.
9. Phi Kappa Phi Honor Society. Member. 2016
10. Phi Sigma Honor Society. Member. 2016
11. Philippine Society of Probiotic and Functional Foods Inc. Member. 2023
12. PhilFruits Association, Inc. Member. 2023

