

CURRICULUM VITAE

1. Name and Other Personal Information

Name AYRTON JOHN VALENZUELA BANTAY

Present Address Kanlaon Graduate Dormitory
VSU, Baybay City, Leyte
Permanent Address Purok 5, Songculan, Dauis, Bohol
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2. Education

Graduate Degree Master of Engineering in Mechanical Engineering
Cebu Institute of Technology – University
Cebu City, Philippines
June 2022
CHED Scholarships for Instructors' Knowledge Advancement Program (SIKAP)
VSU Fellowship Scholarship

Master of Science in Mathematics
Magna cum Laude, Bohol Island State University – Main Campus,
Tagbilaran City, Philippines
May 25, 2018

Certificate Program Bachelor of Secondary Education major in Mathematics
Professional Education Studies
University of Bohol, Tagbilaran City, Philippines
October 2018

B.S. Degree Bachelor of Science in Mechanical Engineering
Bohol Island State University – Main Campus
Tagbilaran City, Philippines
March 21, 2016
One Town, One Scholar by CHED
Toshiba Scholar

3. Academic Experience

Sept. 2018 – Present Instructor I (latest rank), Department of Mechanical Engineering
Visayas State University, Baybay City, Leyte

Nov. 2016 – Aug. 2018 Instructor (COS), Department of Mechanical Engineering
Bohol Island State University – Main Campus
Tagbilaran City, Philippines

4. Certifications or Professional Registrations

Registered Mechanical Engineer – Professional Regulation Commission
Licensed Professional Teacher – Professional Regulation Commission

5. Current Membership in Professional Organization

Member, Philippine Society of Mechanical Engineers (PSME)
Member, Mathematical Society of the Philippines
Member, Philippine Association of Researchers and Statistical Software Users
Member, Mathematics Teachers Association of the Philippines Tertiary Level
Member, Philippine Association for Teachers and Educators

6. Service Activities (Within and Outside of the Institution)

- Member, Parish Youth Ministry, Our Lady of Peace and Good Voyage Parish, Songculan, Dauis, Bohol, 2004 - Present
- Member, Dela Paz Choir, Our Lady of Peace and Good Voyage Parish, Songculan, Dauis, Bohol, 2006 – Present
- Member, TWG on Water and Sewerage System, Visayas State University, December 29, 2024 – Present
- Member, University Research and Development, and Innovation Technical Working Group – Engineering, Industry and Energy, Visayas State University, June 3, 2024 – Present
- Member, VSU Committee on Appraisal and Disposal of Unserviceable Property and Other Assets, May 31, 2024 – Present
- Member, Technical Working Group in Harnessing the RDLead Program of the DOST's Accelerated R&D Program for Capacity Building for R&D Institutions, Jan. 21, 2025 – Present
- Member, Faculty of Engineering OBE Committee, Jan.13, 2025 – Present
- Auditor, VSU Faculty Advancement Network, 2022 – 2024
- Board of Directors, VSU Faculty Advancement Network, 2024 – Present
- Auditor, VSU System Faculty Union, 2022 – Present

7. Research Involvement

- **Study Leader** - Enhancement of Quality, Safety and Stability of Selected Dairy Products Processed by the Baybay Dairy Cooperative. (2023 to Present). VSU Internationalization Program on Research.

8. Brief List of Publications and Presentations from the Last 5 Years

- Bantay, A.J.V. 2023. On the Interior and Closure of Strongly Generalized Star Semiclosed Sets in Generalized Topological Spaces. Paper Presented, MSP7 Research Congress and Convention. December 6-7, 2023. JJ's Seafood Village, Tagbilaran City, Philippines.
- Bantay, A.J.V. 2022. Geographic Information Systems Multiple Criteria Decision Making Based Suitability Mapping of Solar Energy in Bohol, MEng Thesis, Cebu Institute of Technology – University, Cebu City, Cebu, Philippines.
- Lelie Lou Bacalla, **Ayrton John Bantay**, and Diamond Jeff Paug. Correlational Analysis of the Effluent from the San Carlos Biopower, Inc. Wastewater Treatment Plant. Publication (2021-12-05). Journal of Science, Engineering and Technology.

- Bantay, A.J.V. 2018. Strongly g^* -Sets in Generalized Topological Spaces. Paper Presented, 2019 Mathematical Society of the Philippines Cebu Research Congress and Convention. November 14-15, 2019. Bayfront Hotel, Cebu City, Philippines.
- Bantay, A.J.V. 2018. Strongly g^* -Sets and Strongly g^* -Continuous Functions in Generalized Topological Spaces. MSMath Thesis, Bohol Island State University – Main Campus, Tagbilaran City, Bohol.
- Bantay, A.J.V. 2017. Time Interval in Giving Test and Mathematical Performance. Paper Presented, Mathematical Society of the Philippines, Regions 10, 12 and ARMM Chapter. Metro Center Hotel, Tagbilaran City, Bohol.
- Bantay, A.J.V. 2017. Study Habits of Deloaded and Nondeloaded Teacher Education Students in Mathematics Subject. Paper Presented, Mathematical Society of the Philippines, Regions 10, 12 and ARMM Chapter. Metro Center Hotel, Tagbilaran City, Bohol.
- Bantay, A.J.V., et. al. 2016. Cacao Bean Roaster Machine. Undergraduate Thesis, Bohol Island State University – Main Campus, Tagbilaran City, Bohol.

9. Thesis Advisorship

Bryan R. Alluso	Evaluation of Thermal Properties, Structural Morphology, and Flame Characteristics Tuba Tuba Seeds (<i>Jatropha caracas L.</i>)
Matthew M. Angeles	GIS-Based Estimation of Biomass Availability and Energy Potential from Coconut (<i>Cocos nucifera</i>) Residue in Leyte Island, Philippines
Kristian Dave A. Baguio	Noise and Vibration Analysis of Toroidal Wind Turbine
Gilbert A. Felicio	Evaluation of Thermal Properties, Structural Morphology, and Flame Characteristics Castor Oil Seed (<i>Ricinus communis</i>)
Gercel Niño E. Hoyumpa	Assessment of Urban Heat Island in Tacloban City Using Geospatial Technique and Machine Learning
Joseph Ruel B. Maglasang	Evaluation of Thermal Properties, Structural Morphology, and Flame Characteristics Dried Sugarcane Bagasse (<i>Saccharum officinarum</i>)
Kyle Louis S. Miraflor	Dynamic Analysis of Toroidal Wind Turbine Blade
Jasper Cabarubias	GIS-Based Assessment of Floating Solar Photovoltaic Systems in Lake Danao, Ormoc City, Leyte, Philippines
Gisto, Julius Rey S., Rebato, Arnulfo Jr. P., Romina, Joshua B., Salangsang, Angelica P. and Calatrava, Clint Simon M.	Spatio-Temporal Analysis of Urban Heat Island in Ormoc City, Philippines

10. Brief List of the Professional Development Activities

- Certificate of Participation as Participant in the Seminar-Workshop on Research, Entrepreneurship, Patent and Book Writing: Key to Programs Accreditation of Tertiary Level Institutions of the Country held on March 30-31, 2017, at Bohol Island State University - Main Campus, Tagbilaran City, Bohol, Philippines

- Certificate of Participation as Participant in the Seminar-Workshop on Patent Specification and Claim Drafting held on April 18-20, 2017, at Bohol Island State University - Main Campus, Tagbilaran City, Bohol, Philippines
- Certificate of Participation as Participant in the Seminar-Workshop on Arduino for Teachers with Fritzing and Proteus Simulator held on May 16-18, 2017, at Bohol Island State University - Main Campus, Tagbilaran City, Bohol, Philippines
- Certificate of Participation as Participant in the Seminar on Educating the 21st Century Learner held on June 15, 2017, at Bohol Island State University - Main Campus, Tagbilaran City, Bohol, Philippines
- Certificate of Completion as Participant in the 2017 65th National Convention of Philippine Society of Mechanical Engineers held on October 18-21, 2017 at SMX Convention Center, Mall of Asia, Pasay City, Philippines
- Certificate of Participation as Participant in the Mathematical Society of the Philippines Regions 10, 12, and ARMM Research Conference and 2017 Annual Convention held on Oct. 24-26, 2017, at Metro Center Hotel and Convention Center, Tagbilaran City, Bohol, Philippines
- Certificate of Participation as Participant in the Workshop on New Trends in Engineering and Technology given by Hytec Power, Inc. held on Nov. 20, 2017, at Bohol Island State University - Main Campus, Tagbilaran City, Bohol, Philippines
- Certificate of Recognition as Participant during 7th International Conference on Multidisciplinary Research held on Nov. 28-30, 2017, at N Hotel, Cagayan De Oro City, Philippines
- Certificate of Participation as Participant in the Seminar on Journal Publication and Research Data Analysis held on Mar. 1, 2018, at Bohol Island State University - Main Campus, Tagbilaran City, Bohol, Philippines
- Certificate of Completion as Participant in the 2018 66th National Convention of Philippine Society of Mechanical Engineers held on October 17-20, 2018, at SMX Convention Center, Mall of Asia, Pasay City, Philippines
- Certificate of Participation as Participant in the 2018 MSP Cebu Research Congress and Convention held on Dec. 6-7, 2018 at St.Mark HoteK, Cebu City, Philippines
- Certificate of Participation as Participant in the Retooling/Capacity Building Seminar-Workshop (Effective Facilitating Skills and Proactive Intervention Techniques in Responding Students-at-Risk Situations) held on Nov. 26-27, 2019, at VSU, Baybay City, Philippines
- Certificate of Participation and Completion as Participant in the PARSSU National Conference-Workshop on Research, Statistics, and Measurement with Software Applications held on Dec. 21-23, 2018, at Kew Hotel, Tagbilaran City, Bohol
- Certificate of Participation as Participant during Training on Publishing and Reviewing Manuscripts in Journals and Conference for Engineering and Technology Professionals held on March 6-8, 2019, at EVSU, Tacloban City, Philippines
- Certificate of Participation as Participant in the MTAP-TL Lecture with the theme "Learner Centered Perspective in the Teaching of Mathematics in the Modern World" held on Mar. 18, 2019, at Visayas State University, Baybay City, Leyte, Philippines
- Certificate of Participation as Participant during 1st International Conference in Science and Mathematics (MSU-IIT) held on April 11-13, 2019, at MSU-IIT, Iligan City, Philippines

- Certificate of Participation as Participant during Mathematical Society of the Philippines Cebu Chapter Research Conference and Convention held on Nov. 14-15, 2019, at Bayfront Hotel, Cebu City, Philippines
- Certificate of Attendance as Participant during the webinar by the Philippine Association Engineering Schools, Inc. - Coping with the Challenges of the New Normal: Online Teaching and Learning Strategies held on Aug. 14, 2020
- Certificate of Participation as Participant in the PIChE Cebu Webinar entitled "Optimizing Process Plant Energy" held on Aug. 22, 2020
- Certificate of Participation as Participant in the PIChE Cebu Webinar entitled "Nanofiber properties, synthesis and its role in public protection from Covid 19" held on Sept. 8, 2020
- Certificate of Participation as Participant in the PIChE Cebu Webinar entitled "What Chemical Process Engineers Must Know about Plant Design" held on Sept. 12, 2020
- Certificate of Participation as Participant in the PIChE Cebu Webinar entitled "Waste Minimization for the Process Industry -A Process Integration Approach" held on Sept. 19, 2020
- Certificate of Participation as Participant in the PIChE Cebu Webinar entitled "Overview Process Plant Layout by Sean Moran" held on Sept. 26, 2020
- Certificate of Participation as Participant in the PIChE Cebu Webinar entitled "Waste Minimization for the Process Industry -A Process Integration Approach" held on Sept. 19, 2020
- Certificate of Participation as Participant in the 1st PSME-CHBE Virtual Series Episode 1 titled "Machine Vision System for Orchard Management" held online via Zoom Video Communications on Sept. 30, 2020
- Certificate of Participation as Participant in the ISda Talk 2020: A Conversation on Conservation held on Sept. 30, 2020, at UP Visayas, Miagao, Iloilo, Philippines
- Certificate of Participation as Participant in the 1st PSME-CHBE Virtual Series Episode 2 titled "Design, Operation, & Maintenance of 5.8 m by 9.2 m EGL or 6.6 MW Ball Mill" held online via Zoom Video Communications on October 1, 2020
- Certificate of Participation as Participant in the 1st PSME-CHBE Virtual Series Episode 3 titled "The Art of Negotiation" held online via Zoom Video Communications on October 3, 2020
- Certificate of Participation as Participant in the 1st PSME-CHBE Virtual Series Episode 4 titled "Elevator and Escalator Installation Safety Essentials" held online via Zoom Video Communications on October 5, 2020
- Certificate of Attendance as Participant in the UP-Training Center for Applied Geodesy and Photogrammetry Projects Webinar Series Day 1 held on October 6, 2020
- Certificate of Attendance as Participant in the UP-Training Center for Applied Geodesy and Photogrammetry Projects Webinar Series Day 2 held on October 13, 2020
- Certificate of Attendance as Participant in the UP-Training Center for Applied Geodesy and Photogrammetry Alumni Webinar Series Day 3 held on October 20, 2020
- Certificate of Participation as Participant in the 22nd SPVM National Physics Conference: CONVIRTUALISATION Session on Biophysics and Complex Systems held online via Zoom Video Communications on October 31, 2020
- Certificate of Participation as Participant in the Showcase Testing Capabilities of the Physical and Performance Testing Laboratory of the Standards and Testing Division - ITDI held online via Zoom Video Communications on Nov. 3, 2020

- Certificate of Participation as Participant in the 2020 Mindanawan Math-Stat International Webcom held on Nov. 4, 11 and 18, 2020 via Zoom
- Certificate of Participation as Participant in the One Stat-at-a-time: A Webinar Series on Basic Statistical Tools and Techniques in Research Session 1 entitled “Move On from your EX-periment: Basic Experiment Designs” given by UPLB held online via Zoom Video Communications on Nov. 23, 2020
- Certificate of Participation as Participant in the One Stat-at-a-time: A Webinar Series on Basic Statistical Tools and Techniques in Research Session 2 entitled “It’s NOT Complicated: Analysis of Data from Single, Two or More Populations” given by UPLB held online via Zoom Video Communications on Nov. 25, 2020
- Certificate of Participation as Participant in the One Stat-at-a-time: A Webinar Series on Basic Statistical Tools and Techniques in Research Session 3 entitled “Are We Correlated? Relationship Among Variables” given by UPLB held online via Zoom Video Communications on Nov. 27, 2020
- Certificate of Completion as Participant in the 28th Summer Institute in the Natural Sciences and Mathematics held on April 27-29, 2023, at UP Baguio
- Certificate of Participation as Participant and earned 12 CPD units in the 29th Summer Institute in the Natural Sciences and Mathematics held on April 4-6, 2024, at University of the Philippines Baguio
- Certificate of Completion as Participant in the Wastewater Treatment Operators’ Workshops held on September 4-5, 2024, at Leope Hotel, Mandaue City, Cebu