

# Angel Nicole V. Iniego

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## EDUCATION

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**STEM Scholar**, Philippine Science High School – Cagayan Valley Campus (PSHS-CVC), August 2018 – June 2024

Batch Rank: **2<sup>nd</sup> out 88**

Cumulative GWA (6/6 school years): **1.11, with Highest Honors**

Concentrations on Physics, Chemistry, and Computer Science:

- Experimental, Theoretical, and Computational Physics
- Reactions and Interactions of Organic and Inorganic Compounds
- Data Structures and Algorithms
- Community-based STEM Research
- Statistical Methods
- Differential and Integral Calculus and Linear Algebra

## TECHNICAL SKILLS

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- Video Production: Adobe Premier Pro, Filmora
- Specialized Software: wxMaxima, Geogebra, SketchUp, RStudio
- Desktop Publishing: LaTeX, Canva, Microsoft Office, Google Suite
- Programming: Java, C++, HTML5 Web Design, Low-Code Mobile Development

## MAJOR ACHIEVEMENTS

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**Research Intern**, Massachusetts Institute of Technology (MIT) for the Research Science Institute, June 2023 – August 2023

- Actively working with Professor Hal Abelson, David YJ Kim, and Jeffrey Schiller on leveraging MIT App Inventor to advance Artificial Intelligence Education.
- Developed **AltruBot**, a block-based app that uses ChatGPT to generate customized college essay outlines.
- Concerned with ethical concerns such as fairness and privacy protection to ensure that educational AI is used responsibly at large.
- Has articles about the project published on the [MIT App Inventor website](#) and [social media outlets](#).

**PSHS-CVC Model United Nations**, Secretary General, August 2023– June 2024

- Improved delegate preparation by 75% by conducting school-wide trainings and conferences
- Represented the campus club in the formation of the System-wide PSHS MUN organization.
- Started as founding member of the club, attended as a delegate in the club's first conference in April 2022
- Formally elected as Deputy Secretary General on November 2022 – August 2023.
- Served as a Dais or Delegate at several local and international MUN conferences.

**Project Manager, Linkage Liaison, and Peer Mentor**, NXplorers Hybrid Workshop, October 2022

- Organized and directed a hybrid workshop that trained 106 research teachers and students from 18 senior high schools (90% coverage) with the complex skills needed to solve problems involving the food, water, and energy nexus.
- Liaised between Shell NXplorers, PSHS-CVC, and the City Government of Cauayan to deliver the workshop as a triple-helix collaboration of a non-profit, academe, and the government.
- Served as peer critic during the Elevator Pitch sessions and co-facilitated the topic Scenario Planning.

**Multinational Team Member**, The Junior Academy, February 2022 – September 2022

- Tri-fold solution on the Flexible Use of Electricity was judged the Challenge Winner over 150+ entries from Junior Academy teams of the New York Academy of Sciences (NYAS) all over the world.
- Shared about ideating and crafting solutions during the kickoff weeks for the incoming members.
- Featured in the [social media](#) and in articles for [The Junior Academy recruitment](#) on the NYAS website.

**Young CEO of a potential startup**, Malaysia Young Inventors Challenge, March 2022

- The elevator pitch for the product Syncode became the inaugural winner of the Entrepreneurs version of the annual YIC. Syncode is version 2 of EASynch that won a Gold Award in YIC Special Edition in 2021 and the prototype of the research RFID-based Computer Log System.
- Featured in the social media accounts of a [major local news company](#) and the [PSHS-CVC](#).

**Team Captain**, Shell NXplorers Challenge, December 2021 and May 2023

- (2021) The innovative Agriculture 4.0 solution, Smart AgriHub, emerged as Champion of the NXplorers Challenge 2021.
- (2023) Merit award for IntelliOutlet: Smart Power Socket with Chatbot Frontend (Copyright-protected)
- Reported by several [news outfits](#) and on the Shell website. Their [pitch video](#) is available on-demand.

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## RESEARCH CONDUCTED

**AI vs. Student Writing in Filipino**

- Analyzing the Impact of Generative AI on Filipino Essays and Academic Integrity, 2023 – 2024

**AltruBot: Leveraging Generative AI in College Application Essay Preparation**

- Generative AI Applications using a Block-Based Programming Platform (MIT App Inventor), 2023-2024

**The SmartAgri Hub: Farmer Certification App**

- Low-Code System and Mobile App Development (Computer Science), 2021-2024

**IntelliOutlet: Smart Power Outlet with ChatBot WebApp Interface**

- IoT Edge Computing Systems Smart Homes Integration (Engineering), 2021 – 2022

**Radio-Frequency Identification (RFID) – Based Computer Log System for Computer Laboratories**

- Embedded Systems Development (Engineering), copyrighted research, 2020 – 2021

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## INTELLECTUAL PROPERTY

**Copyright for IntelliOutlet: Smart Power Outlet with ChatBot WebApp Interface (Abstract)**

- Transfer Certificate No. 2023-01484-A-TCCR issued on April 25, 2023
- View [Abstract](#) and [Certificate](#).

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## TRAININGS/SEMINARS ATTENDED

**MUN Dais Training**, Delegate, Iloilo City, PH, June 2022

- Mastered parliamentary procedure, managing debates, guiding delegates, and maintaining committee order.

**Shell NXplorers Innovation Workshop**, Graduate, April 2021

- Introduced to a novel paradigm and tools for innovation in preparation for The Bright Ideas Challenge.

**World Environmental Education Congress**, Delegate of the Philippines, Bangkok TH, November 2019

- Presented the research, “Analyzing the weather parameters in PSHS-CVC”.

**First Globe Youth Camp**, Delegate of the Philippines, Phetchaburi TH, November 2019

- Science camp for the youth of Asia.

**Kids' Innovation Camp 2.0**, Delegate, Batangas, PH, November 2019

- Innovation training for select Philippine Science High School Scholars.

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## LEADERSHIP AND COMMUNITY ENGAGEMENT

**CEO of The Altruistic Scholar**, December 2022 – August 2024

- Led a [student-led nonprofit](#) aiming to extend equal opportunities to students interested in college applications and self-branding– offering a catalyzed way to accelerate the build-up of students' portfolios, igniting passion and boosting confidence within students.
- Conducted Greater Heights, Better Sights an event participated by 55+ registrations spawning from at least 3 countries to share insights on college applications.

#### **Physics Olympiad Training Coordinator, December 2022 – August 2024**

- Facilitated review sessions for the Physics Olympiad delegation, including problem-solving sessions, writing problems and answer keys, teaching LaTeX, and conducting a mock Olympiad in the absence of teachers

#### **Andronation Fundraising Lead, November 2023 – March 2024**

- Oversaw the raising of 20 000 PHP ( $\approx$ 400 USD), including donations, to provide grocery packs for our school's utility and security personnel.
- Prepared food items for sale and organized roles and tasks among classmates

#### **Ten Outstanding Kabataang Cauayenos – Young SDG Heroes, May 2022**

- One of the Ten most noteworthy youth of Cauayan City in terms of their impact on the community, especially in achieving the 17 SDG goals. She is youngest in the award's history.

#### **(Two Time) Gawad Lingkod Pisay Awardee, 2019 and 2021**

- Prestigious leadership award for exemplary Philippine Science High School System student leaders.
- The youngest-ever recipient of the award in the history of PSHS-CVC.

#### **$\pi$ -oneers Teacher (for PSHS) and Volunteer Teacher (for Cauayan City Stand-Alone Senior High School), 2020-2021**

- Offers tutorial services for peers or online lectures of Chemistry and Biology topics

#### **Social Action Organizer, Project pUNO, 2021**

- Tree-planting and seedling distribution to further promote urban gardening around Cauayan City.

### **SCHOLARSHIPS AND GRANTS RECEIVED**

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**Mehta Fellow at the Mehta Scholar Program**, for being selected as an RSI Student, June 2023

**Shell Unleashed Grant**, to develop and deploy The Smart AgriHub in Cauayan City, February 2023

**Development Grant**, to prototype their winning pitch idea: MANU: Grab for Tricycles, September 2022

**Sunway College Bursary**, Rider of the Gold Award received in the Young Inventors Challenge, November 2021

### **MORE WINS AND INTERESTS**

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#### **INTERNATIONAL**

**(Two-time) Bronze Medal**, International Astronomy and Astrophysics Competition, 2023, 2022

**Bronze Medal**, 4th International Science, Technology, and Engineering Competition (Bali, Indonesia), 2023

**(Two-time) Best Teamwork**, 4th Belt and Road Teenager Maker Camp, 2022, 2020

#### **NATIONAL**

**Bronze Award**, LIKNAYAN 2024 Physics Olympiad by the University of the Philippines – Los Baños, April 2024

**Silver Medalist**, Philippine Online Physics Olympiad, 2022

**Bronze Award**, University of San Carlos – Universal Mind Breaker Physics Quiz Bowl 2022

**Bronze Medal**, Metrobank MTAP Math Challenge, 2017

**Silver Medal**, Metrobank MTAP Math Challenge, 2014

**1st Place**, Press Conference (Copy Reading and Headline Writing), 2017-2018

**Distinction Award**, Press Conference (Editorial Writing and Feature Writing), 2018

**Participant**, Big Bang Astronomy Quiz Show, 2021

#### **SCHOOL-BASED**

**Member**, Science Contests Club, 2022-2021

- Regularly trains as part of the ready pool of contestants for various science contests such as Olympiads, Quiz Bees, and outdoor exposure, and laboratory experiments.