

World Robotics Olympiad at Hungary

Year level Significant Awards Experiences Result Category Contests - Development **⊙** Tags Code - Contests □ Description 2 bots. 1 Infrared ball. □ Date April 20, 2016 Ended September 11, 2019 Comments Add a comment...

Represented the Philippines as Captain of the RoboSoccer team at the World Robotics
 Olympiad 2019 at Hungary after besting 7 national teams with the proportional-integral derivative (PID) controller.

8/2018 - 9/2019

I participated in the World Robotics Olympiad (WRO) for four consecutive years as team captain and an algorithm engineer in Robot Soccer. Before that, I had to learn self-correcting algorithms, such as the proportional-integral-derivative (PID) controller on my own while championing my team through the Lapu-Lapu division level against three teams, then the nationals: where we won 3rd of the eight participating schools nationwide. We represented the Philippines on the WRO-2018 Invitationals and placed 10th; on WRO-2019 and placed 6th in our bracket.



Robotics Coach

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http://felta.ph/2019/4th-lapu-lapu-robotics-cup-supported-by-hon-mayor-junard-ayong-chan/

http://www.techbeatph.com/wproot/2019/09/15/18th-philippine-robotics-olympiad/

https://www.youtube.com/watch?v=bjiHhMB94G4

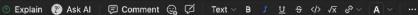
http://felta.ph/2018/amazing-world-robot-olympiad-friendship-invitational-2018/

http://felta.ph/2019/philippine-robotics-team-bags-gold-world-robot-olympiad-finals-hungary-2019/



















WRO 2019 Annual report PDF too big

- WROinvitationals2018-CEBU-SCORESHEET-FINAL-ROBOT-SOCCER.pdf 545.1KB
 WROinvitationals2018-CEBU-SCORESHEET-FINAL-ROBOT-SOCCER.pdf 545.1KB
- 18th-PRO2019-ranking-robot-soccer.pdf 72.8KB
- № 2019_11_08-10 Hungary Robotics Cert Carl.pdf 265.3KB



Republic of the Philippines Department of Education Region VII, Central Visayas DIVISION OF LAPU-LAPU CITY B.M. Dimataga St., Lapu-Lapu City



Attachment No. 3 of Division Memorandum No.

Winners of the 4th Lapu-Lapu City Robotics Cup 2019 and the Official Delegates of Lapu-Lapu City Division to participate in the 18th Philippine Robotics Olympiad on September 2 - 6, 2019 at SM North EDSA, Quezon City

D. ROBOT FOOTBALL CATEGORY

- a. 1st Place: Science and Technology Education Center High School
 i. Student: John Russel A. Jandonero

 - Coach: Donald B. Dungog
 - iii. Principal: Rowena G. Sagarino

b. 2nd Place: Science and Technology Education Center High School

- Student; Fritz Jovan U. Amores
 Coach: Joan M. Dungog
- iii. Principal: Rowena G. Sagarino

c. 3rd Place: Marigondon National High School

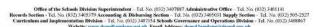
- Student; Carl Vincent Kho
 Student; Daryl M. Patigas
- Student: John Paul Patigas
- iv. Coach: Mary Grace E. Agnes v. Principal: Ricardo T. Cayacap

d. 4th Place: Science and Technology Education Center High School

- Student: Bryner C. Javier
- ii. Coach: Joan M. Dungog iii. Principal: Rowena G. Sagarino







DepEd, Division of Lapu-Lapu City







National Secondary Schools Press Association

MNHS Robotics Team 3rd in Nationals



2-6,2019.
Despite the fact that the team had to reprogram and change their robot the day before the

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What's Inside











































The Journey

I was known for bringing the flag of the Philippines to the World Robotics Olympi ad in Hungary. However, the challenges behind this success story was one that req uired a lot of convincing for financial support.

September 5, 2019. Hoops Dome Arena at Lapu-lapu City, Cebu. Where my body pumpe d enough adrenaline in my veins to overtake Lightning Mcqueen. The time where I l ed my team and my school from a 3-year, always-at-the-bottom-of-the-rankings los e streak, to a spot on the international stage.

I could already foresee our obvious loss against the likes of prestigious school s with the capability to provide gear and knowledge. So I did what any sane leade r would do: I switched categories on a whim. Call it instinct, but I was tired o f losing and craved for the thrill of new challenges. We broke down the robot we tried to perfect for a month, and, with our passion reignited, rebuilt it to fit a completely new world. 5 minutes to build and code on the spot for Robot Socce r. God favored us that day, as we won against the third placer due to an own goa

Now, we move on to the national competition in Manila. Where, long story short, we were practically banned from playing. The parts used in our robots were comprom ises since our school was not financially capable enough to provide us with the proper sensor to detect the infrared ball. The sensor used, instead, was an ultras onic sensor, one intended to supplement the robot's effectivity in scoring goal s. Luckily, we made it into the semi-finals by manually coding the logic alone—without the appropriate sensor. Fortunately, on the day of the finals, one team who did not make it lent us the parts. We lost that year but it was a learning experience.

The following year, we continued the same path and thankfully made it to the nationals again. The only difference was, the community in Lapu-lapu lent us parts and we tapped into an engineer friend for guidance. He played a significant role in our success by introducing us to the PID Control System: a self-correcting algorithm. This sounds good, right? Wait 'till you realize it actually happened a few days before the actual national. I vividly remember the night before the competition proper, we, 2 timid grade 10 students, had to study a few college-level concepts to hone our bot even more. In the contest proper, we made a few friends in Manila and managed to land 3rd place, securing my team a spot in the finals.

Before the glorious nights in Europe, we were faced with yet another financial di llema: the money needed to fund our flight and stay in Hungary. We knocked many d oors, hoping for kind hearts to open up. It was a long, but rewarding journey. I n the end, the mayor of Lapu-lapu City, Hon. Ahong Chan, came to our aid. A core memory that will forever inspire me and my team.











http://felta.ph/2019/4th-lapu-lapu-robotics-cup-supported-by-hon-mayor-junard-ayong-chan/https://www.facebook.com/carlvincent.kho/posts/2429121757201188







