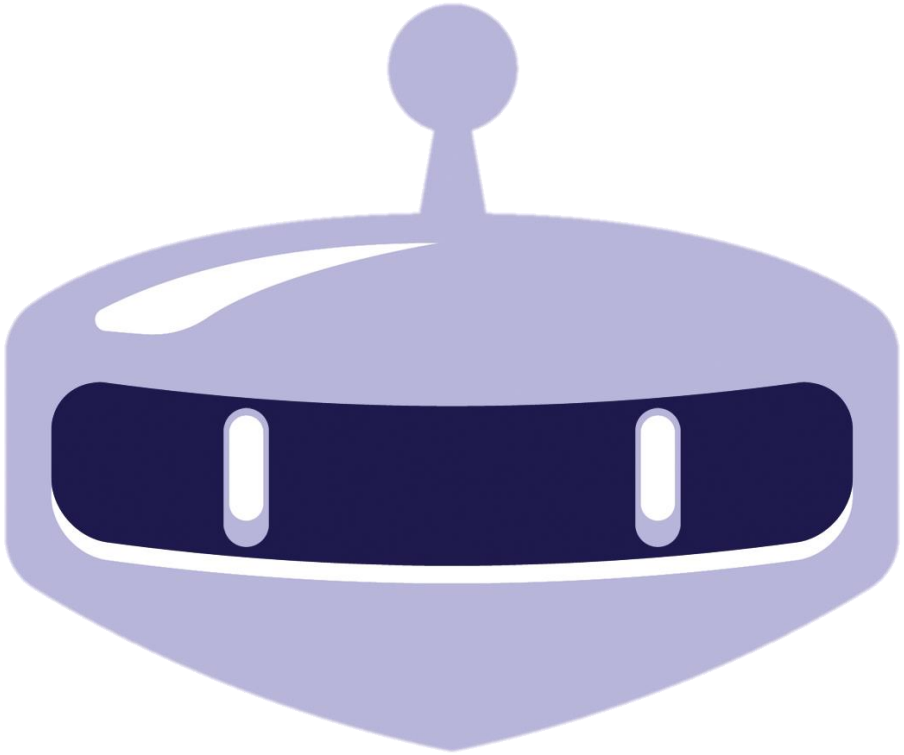
UP Competitive Robotics Club

Workshop 3: Intro to Tournament organizing

Slides by:
Alfred Abanto

UP CRC



ABOUT US

UP CRC

Pursue competitive robotics

Introducing and popularizing competitive robotics to universities and schools in the Philippines

Host robotics tournaments

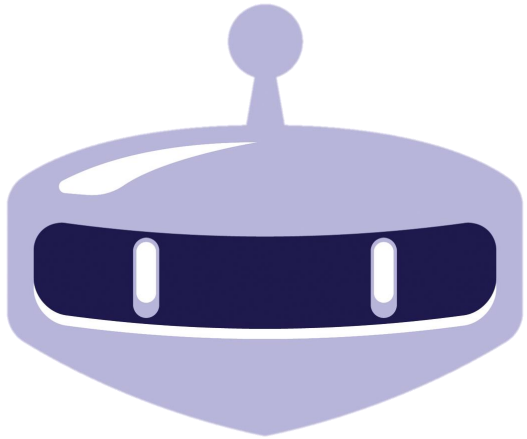
Pushing for people to get creative and be better at robotics

Develop robotics-based solutions

Helping communities and localities through robotics research

UP CRC

Host



Alfred Jason Abanto

- UP CRC Chief Executive Officer
- Synergy: Revolutionary Robotics 2019 – Head
- Synergy: Revolutionary Robotics 2018 – Head
- Revolutionary Robotics workshop speaker 2019
- Revolutionary Robotics workshop speaker 2018
- Dagitab 2019: Day 4 – Guest speaker
- Smartfox Data solutions Inc. - Developer

Robloc

ABOUT US

Round table discussion ft.

Ian Palabasan
Chief of Tournament Operations

Uyayi Rigoroso
Chief Finance

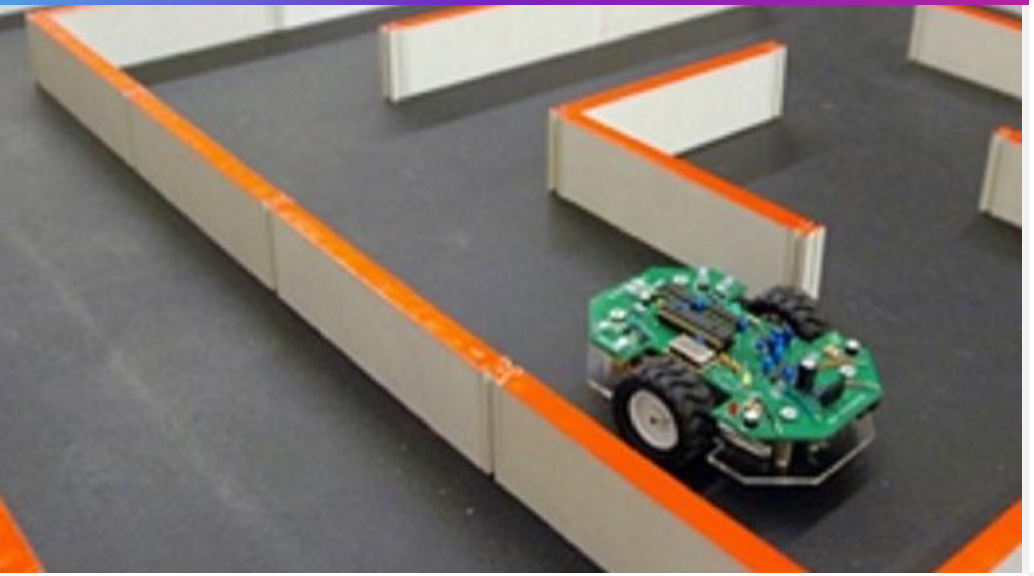
Marion Uy
Research and Development member

Robloc

Our guest speakers

Bea Supanga
Chief Operating Officer

Joie Angelo Llantero
Research and Development member



Overview

Traditional Formats

To start things off we'll talk about how typical robotics tournaments are designed and organized.

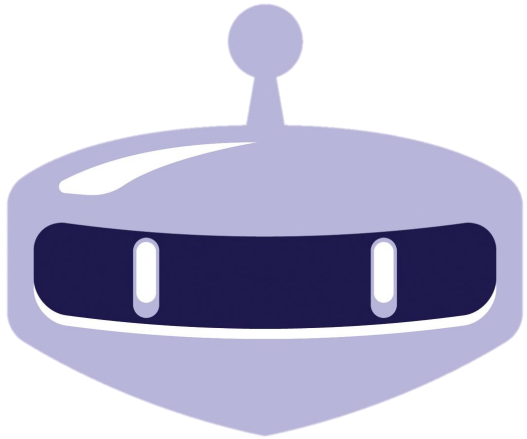
3 steps to organizing your first tournament.

New Formats

Since we are still in a pandemic we need to find new ways to keep the competitive scene growing. With the help our speakers we'll figure out how exactly that is being accomplished.

UP CRC

Tournament Design



UP CRC

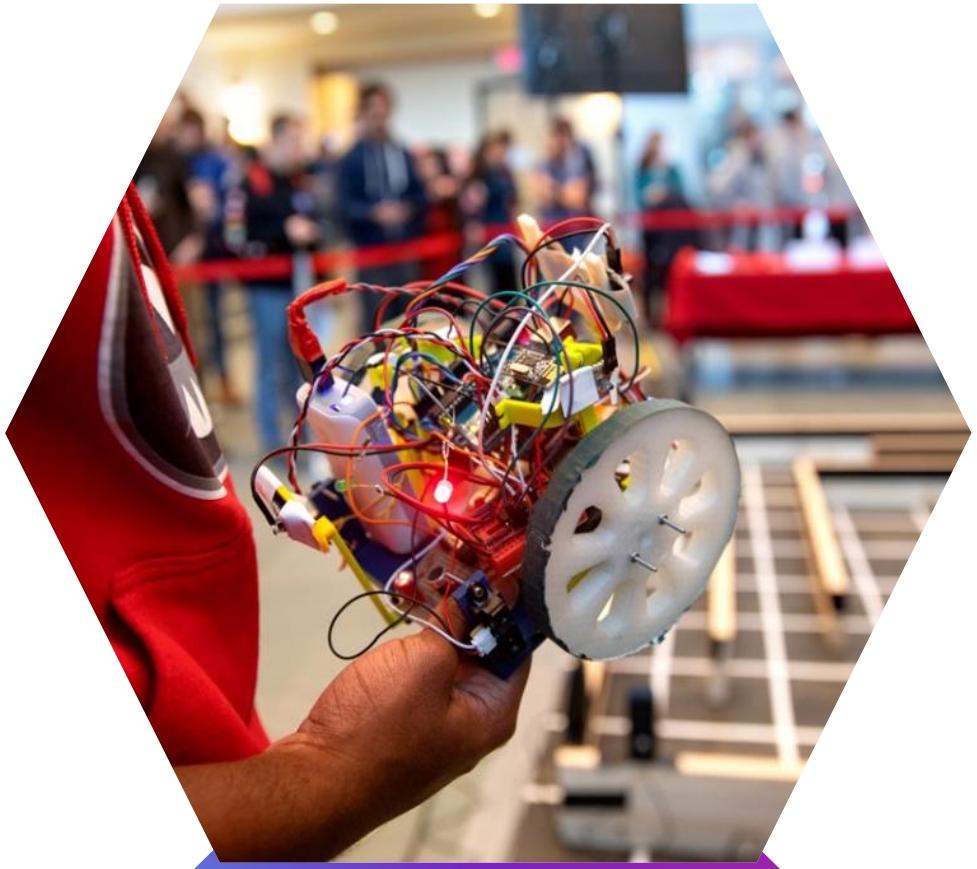
Organizing a Tournament

Format

- Scalable
- Competitive

Mechanics

- Clear challenge
- Realistic expectations



Direction

- Clear benefit of the competition
- Societal Impact

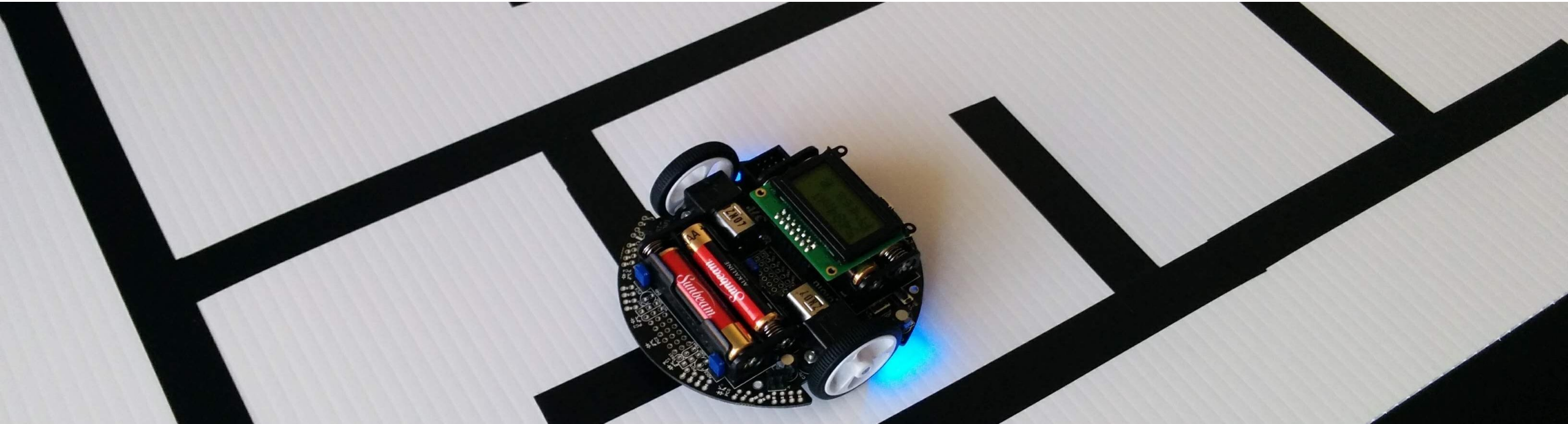
Execution

- Efficient
- Cost effective

UP CRC

Why tournament design?

To help push forward the local industry, we need to stimulate what's already there and also encourage more individuals to venture into hobbies that may lead to entering the industry. More than just holding competitions but also by tailoring them specifically to help people develop and grow as engineers and enthusiasts, can we achieve the growth we desire.



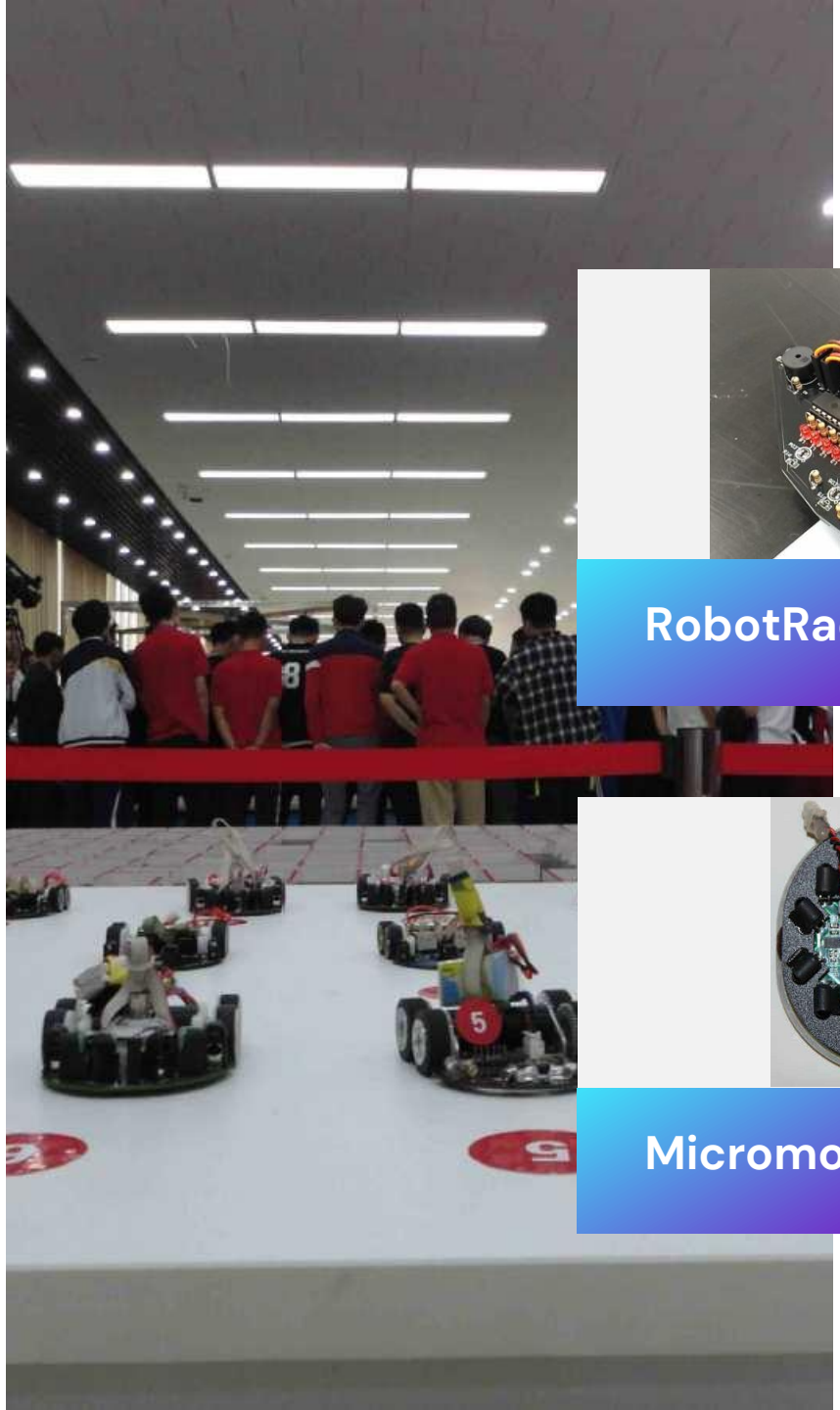
UP CRC

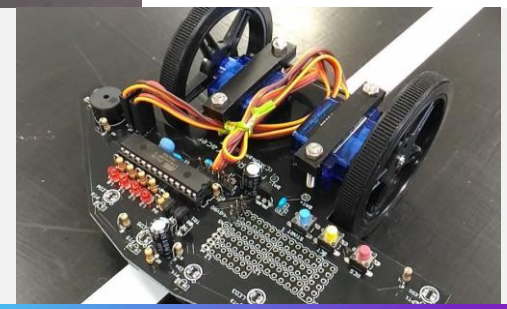
1. What already exists?

New technology Foundation (NTF)

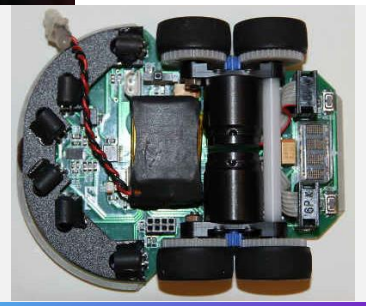
- **Robotracer (Line-following on line track)**
- **Micromouse Halfsize (Maze solving)**
- **Micromouse Classic (Maze solving)**

See: https://www.ntf.or.jp/alljapan2020/



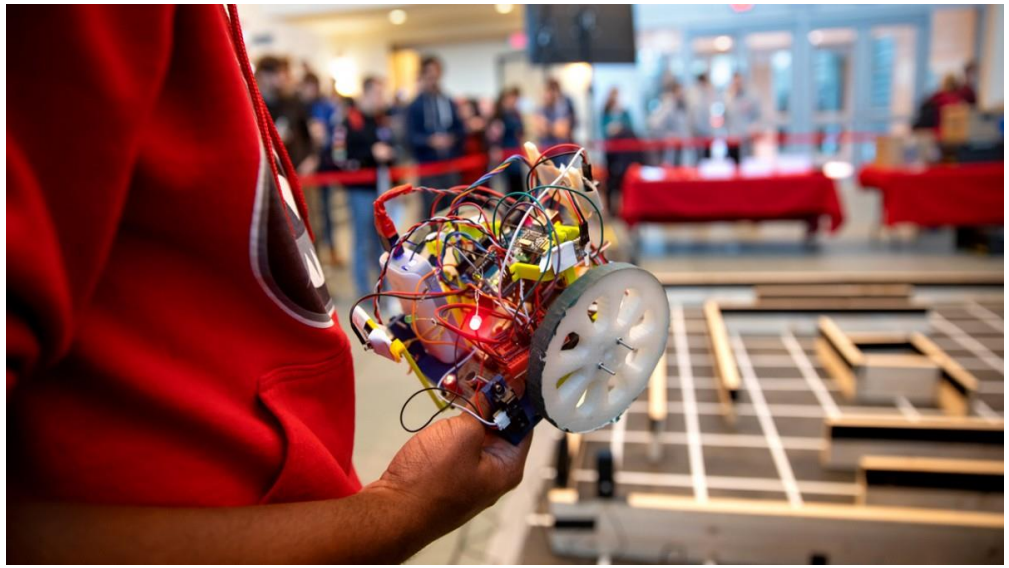


RobotRacer



Micromouse

UP CRC



Some popular formats

UP CRC

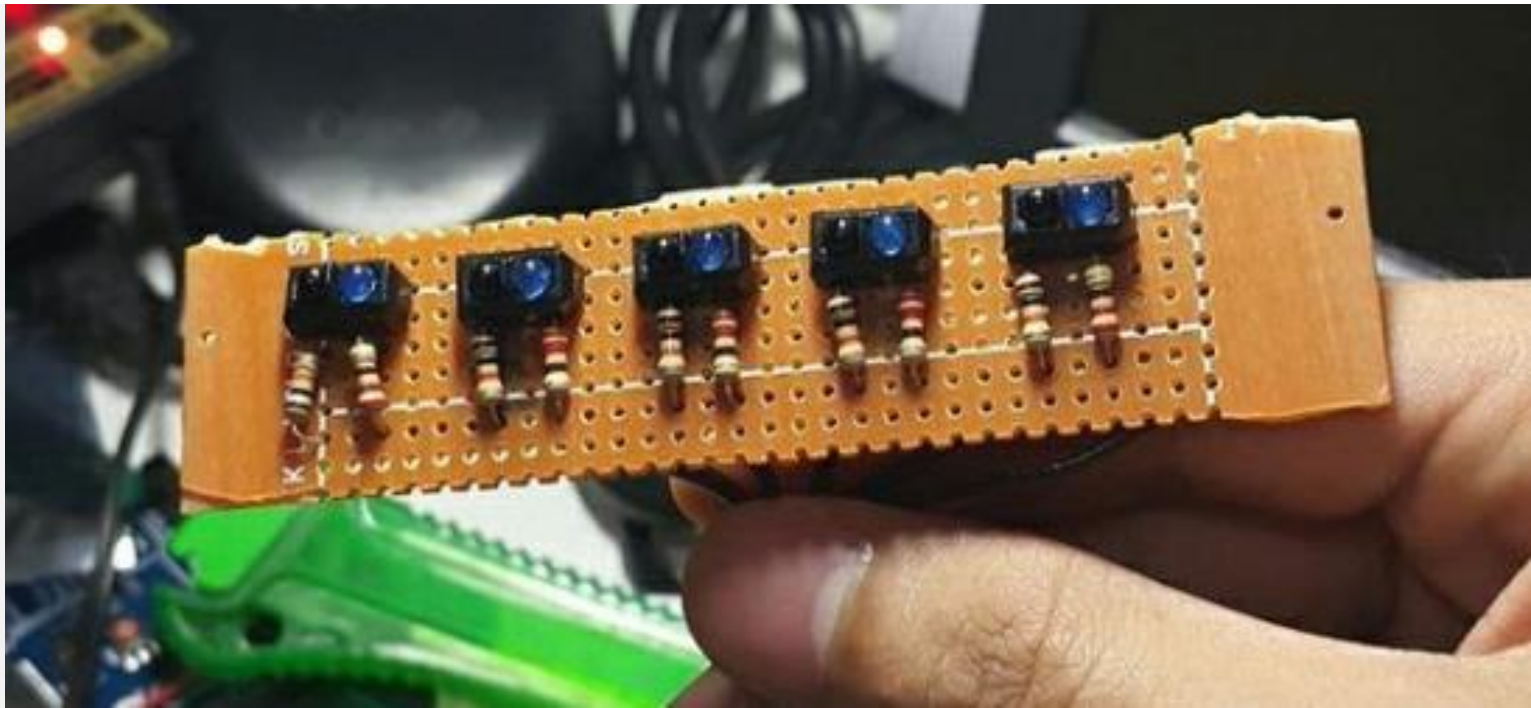
2. Considering the scene here

What are available to people?

Robotics is by no means a cheap hobby. Although participants can be creative and resourceful we have to consider the costs of creating robots to compete and making play areas for the robots to compete in.

Where is the competitive scene currently?

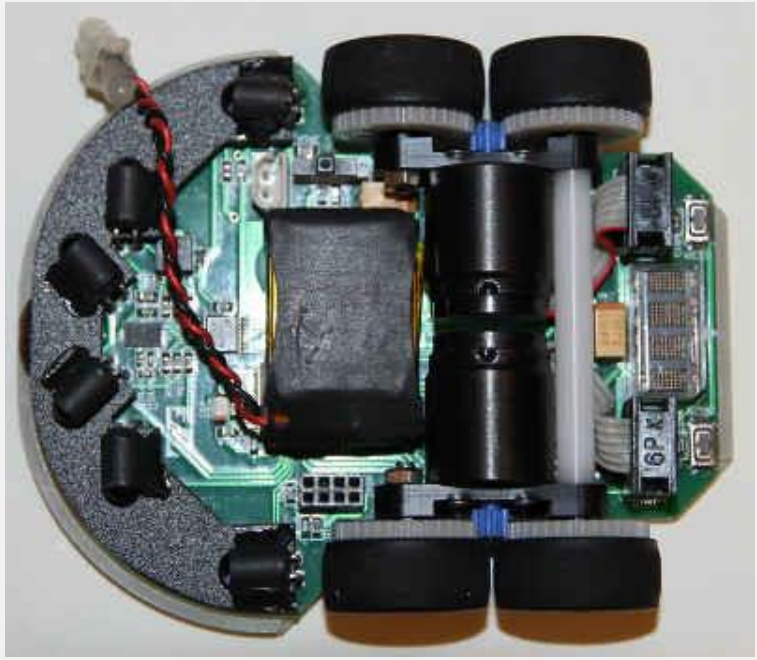
Since our goal is to grow and encourage people to join the scene. We need to pick an appropriate format that is easy to start in and get good at. From there we can evolve it and transition to other formats



UP CRC

A clear path to progression

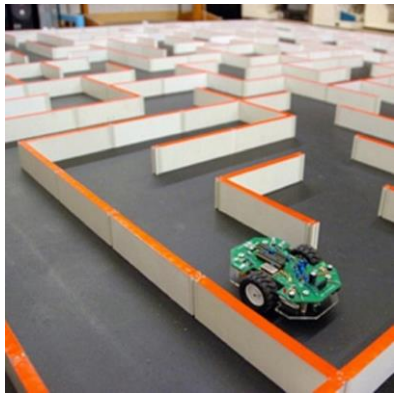
And why it matters to you

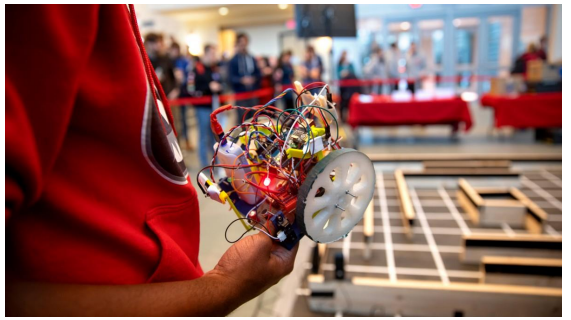


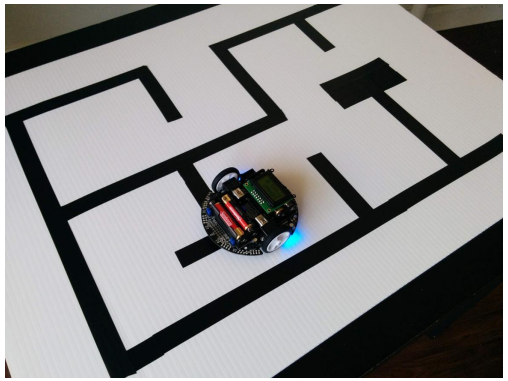
The need for Philippines to catch up to the rest of the world is an old rhetoric but its still true. We need to design competitions with a clear progression and goal in mind.

Powered by Google

UP CRC

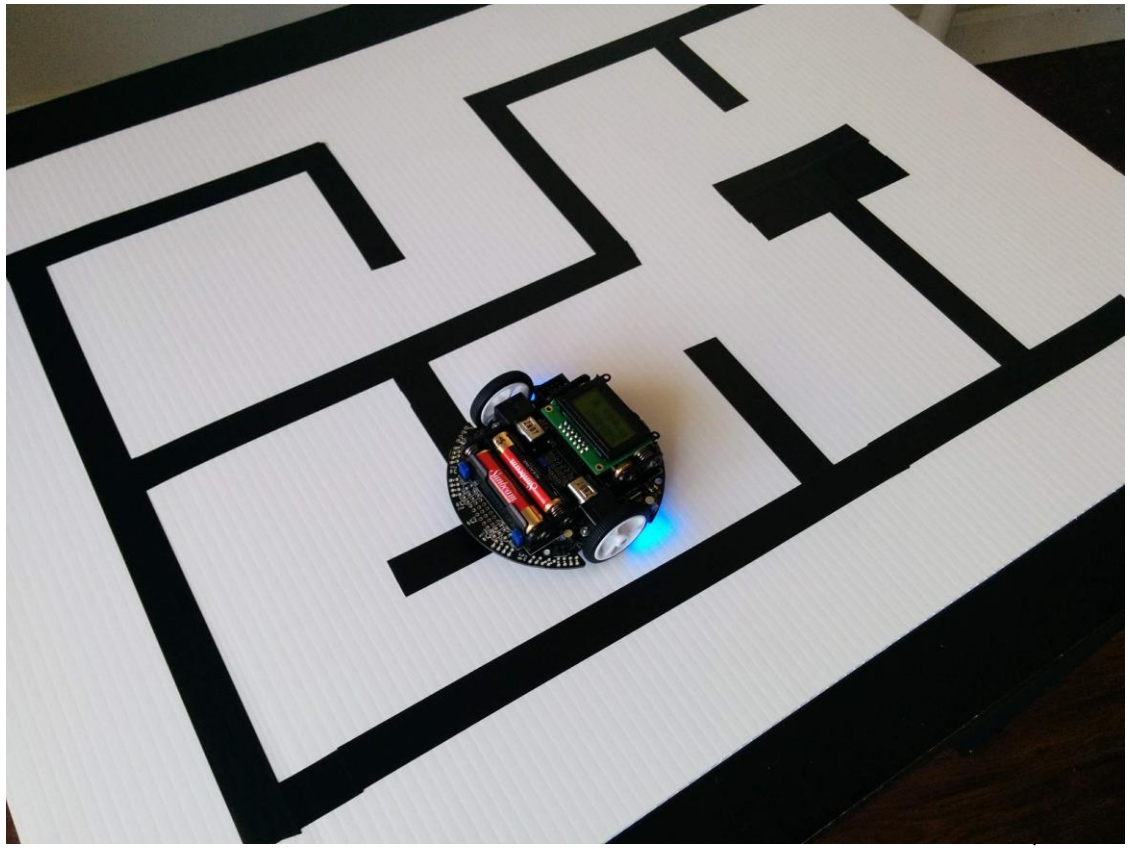




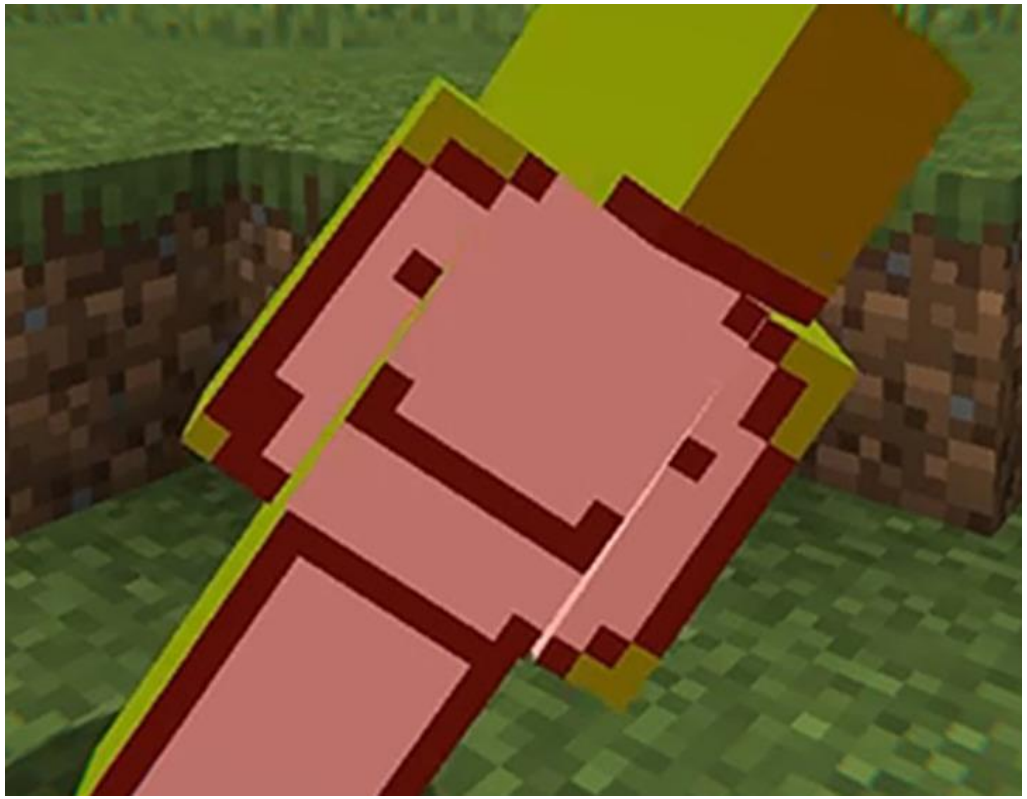


Scale the difficulty (every 3 years?)

UP CRC



Developing a competitive scene



ABOUT US

3. Do it (speed run)

Rules and Mechanics

Design rules that are clear and gives exact measurements of dimensions of the robots and playing fields/mazes

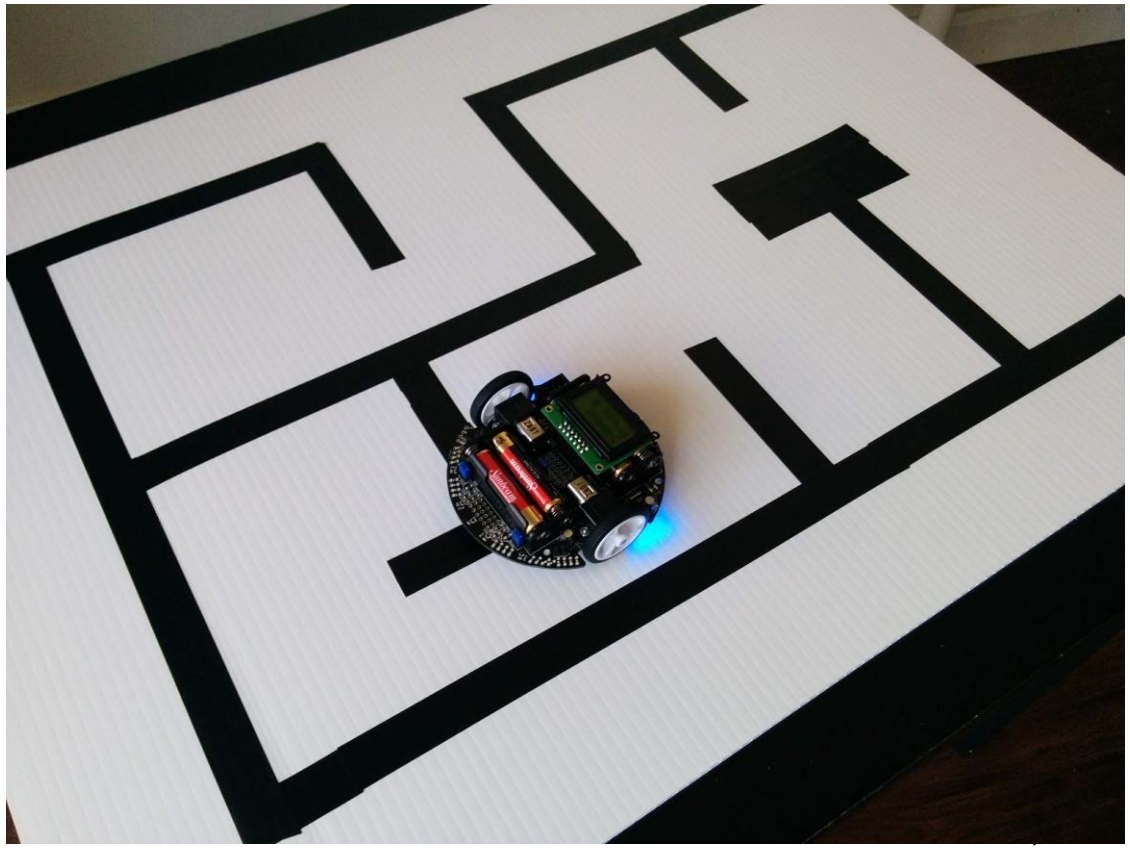
Mazes, Tracks and Arenas

Part of helping the participants develop is designing difficult but forgiving play areas. They should be appropriate for the skill level of the scene

Execute with an efficient system

Seek to execute the tournaments as efficient as any other athletic or e-sports tournament using the similar systems of logistics.

UP CRC



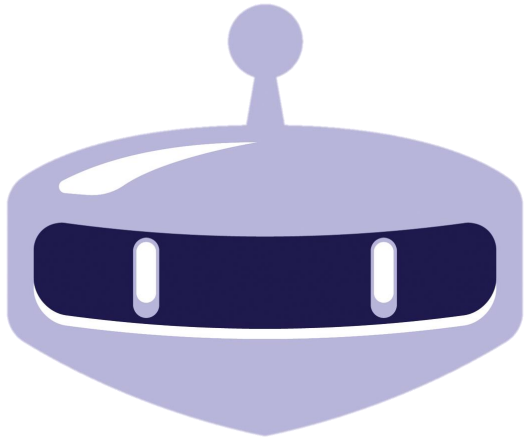
Developing a competitive scene

UP CRC

Here are some samples.

UP CRC

Guests speakers



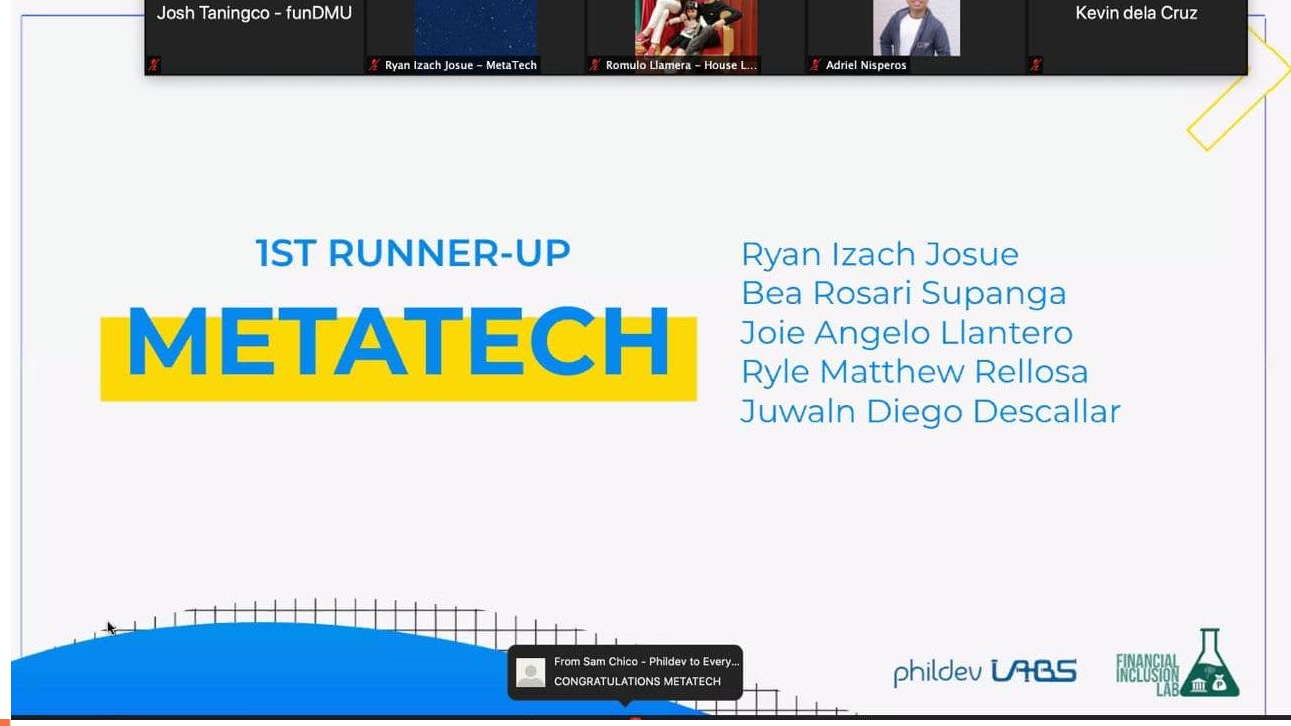
UP CRC


P&G
NEXT
ADVANCING BUSINESS
THROUGH IT.


P&G
NEXT
ADVANCING BUSINESS
THROUGH IT.

UP CRC

Back story



What have you guys been working on? What competitions have been happening during the pandemic?

Zoom master race

CONGRATULATIONS

#PGNext2021

FINALISTS

RATED P&G

Andrei Calabano | Ysabela Louise Coronel | Raver De Guzman
Joie Llantero | Patricia Rae Sy
Mentor: Dustin Dee

P&G NEXT

CONGRATULATIONS

#PGNext2021

FINALISTS

SAFEGUARDIANS OF THE GALAXY

Nicole Anne Cobarrubias | John Sebastian Gerard Dela Cruz
Margarita Juliana Perez | Bea Rosari Supanga | Marco Bryan Torres
Mentor: Lance Putong

P&G NEXT

UP CRC

New formats?

How did the logistics of the competitions turn out and

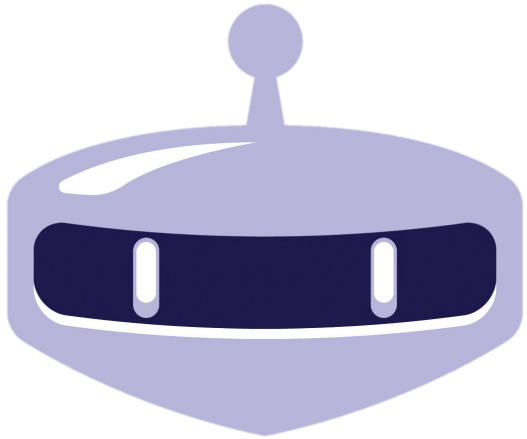
what was the timeline like?

Over all experience?

Zoom master race

UP CRC

Activity



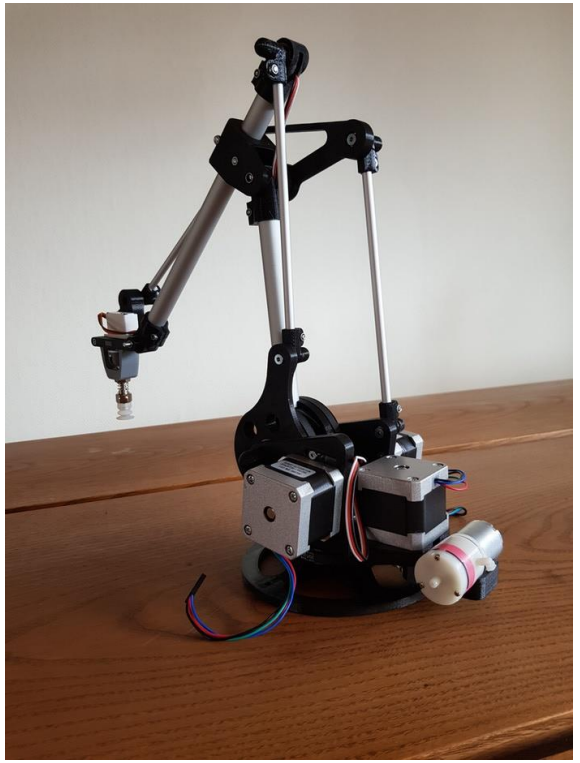
UP CRC

Pitch a tournament concept that you can explain in 2-minutes

Explain how it could be fun but also help develop the industry

UP CRC

Speed stacks but with Robot Arms

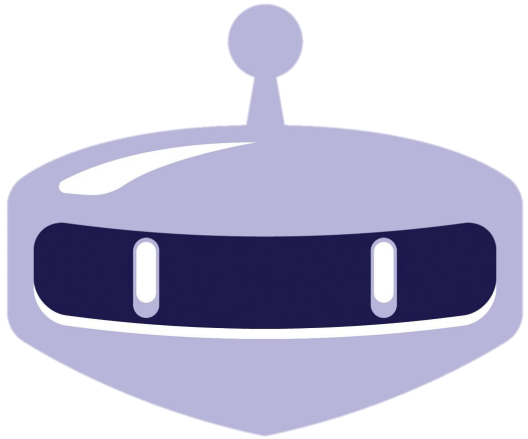


Q&A

UP Competitive Robotics Club

UP CRC

Closing Remarks



Thank You

UP Competitive Robotics Club

Slides by:
Alfred Abanto