



AUPP HIGH SCHOOL
FOXCROFT
ACADEMY

Published on: Friday, 11th October, 2024

Recent & STUDENT ACHIEVEMENTS

Published by: AUPPHS-FA Newsletter Club

CAMBODIA ROBOTICS OLYMPIAD 2024



CIRCULAR DIGITAL LAB CAMBODIA'S "PROJECT PITCHING EVENT"

The CAMBODIAN ROBOTICS OLYMPIAD

#anakutjeangplerng #botastic

AUPPHS-FA Dominates the Cambodian Robotics Olympiad



[Left to right] Ouk Sereyvattanak, Thay Sunheng, Ratana Jethanun, You Chhayna, Bunchhoeun Rattanakboth
Photographed by: Ouk Sereyvattanak

On the 14th of September 2024, three groups of AUPPHS-FA students participated in the Cambodia Robotics Olympiad 2024 and confidently brought their trophies home with medals around their necks! In spite of that, some of the members from our very own “Friendly Neighborhood” Newsletter Club was given the opportunity to interview and discuss with our fellow students from AUPPHS-FA.

AUPP HIGH SCHOOL TEAMS

Team Charlie Brown

Bun Vanben, Ouk Sereyvattanak, Sophea Vitian who won 1st place in the category “Future Innovators”.

-Qualified for WRO 2024, Turkey

Team Snoopie

Bunchhoeun Rattanakboth, Leangheng Vongchhayyuth, Sreng Kimroath Piseth who won 1st place in the category “Future Engineers”.

-Qualified for WRO 2024, Turkey

Black Hawk Robot FC

Thay Sunheng, You Chhayna, Ratana Jethanun

-1st Place in the Seniors Category of “Robot Soccer”

STILL CURIOUS ABOUT WHAT EXACTLY HAPPENED HERE? WELL, YOU'RE IN THE RIGHT PLACE!

Let's hear from our winners after an exclusive interview with AUPPHS-FA's one and only Newsletter Club!

#ANAKUTJEANGPLERNG!

TEAM CHARLIE BROWN

Future Innovators

Bun Vanben is a student in grade 11A. His interest in robotics began when he was in the 9th grade.

He was the designated designer and representative of his group in the category “Future Innovators” where they had to design a robot that could help out with the community. They won first place and are now officially qualified for participation in the WRO 2024 that takes place on the 28th-30th of November 2024 in Turkey! Along with his team members Ouk Sereyvattanak, the mechanic, and Sophea Vitian, the coder, Bun says that he “only joined the competition because he lost a bet” and how fortunate it is that their bet turned into a win.

“We had to develop a robot that could help the community and I guess the hardest part was the thought process. But in the end, when they announced the winners, all I could think about was saying *yippie!!*” - Bun Vanben



Charlie Brown's final project

Photographed by: Charlie Brown

1. What did it take to build and assemble your robot?

Bun: “Well first of all, we had to code the circuit then we started designing. The thinking part was a bit hard but we made it work. We printed a 3D model and assembled it together.”

2. What inspired you to design your robot the way you did?

Bun: “We just wanted a simplistic design, I guess it kind of resembled a box.”



How exactly did your robot help out with the community?

Bun: “We designed a functional data collecting robot that was capable of preventing floods.”

How long did it take for you to build your robot?

Bun: “It took us around 6 months but I think the hardest part was just coming up with the idea and all.”

Did you have a coach/advisor?

Bun: “Our advisor was Mr. Morokat. He was also our Robotics teacher and he provided guidance, helping us throughout the competition.”

Interviewed by: Mok Channatalyn, Huot Chansopheakpanha

TEAM SNOOPIE

Future Engineer

Bunchhoeun Rattanakboth is a student in grade 11A. His dedication to robotics started in the 10th grade. He was the designer and leader for his group in the category “Future Engineer”. They won 1st place and they are also officially qualified for the WRO 2024 that takes place on the 28th to 30th of November 2024 in Turkey! His team members are Leangheng Vongchhayyuth who was in charge of coding and Sreng Kimroath Piseth, the mechanic.



Team Snoopie

What inspired you to design your robot the way you did?

Bunchhoeun: “What it looked like didn’t really matter to us, we mostly focused on the functionality of it.”

Interviewed by: Mok Channatalyn, Huot Chansopheakpanha

“I joined the competition because I wanted to win.” - *Bunchhoeun Rattanakboth*

How long did it take for you to build your robot?

Bunchhoeun: “It took around 6 months to build.”

What idea did you come up with for the category of “Future Engineer”?

Bunchhoeun: “We designed a self-driving robot and the competition was mainly about displaying one’s ability in the engineering field.”

Who was your advisor or “coach”?

Bunchhoeun: “Our advisor was Mr. Paulen Chhim.”

What can your robot do and how does it do it?

Bunchhoeun: “Our robot was designed to detect and measure flood by utilizing ultrasonic sensors and water sensors.”



Photographed by: Team Snoopie

BLACK HAWK ROBOT FC

Robot Soccer

Thay Sunheng is a student in grade 11B. Although he had initially only started to work with technology in the 10th grade, Thay emphasizes that he is passionate and loves working with robotics. He is the mechanic and representative for his team along with his members You Chhayna, the coder, and Ratana Jethanun, the designer. Thay says that he joined the competition “simply because of his devotion and determination.”

1. How long did it take for you to build this robot?

Thay: “It took me around 5 months to build.”

2. What did it take to build and assemble your robot?

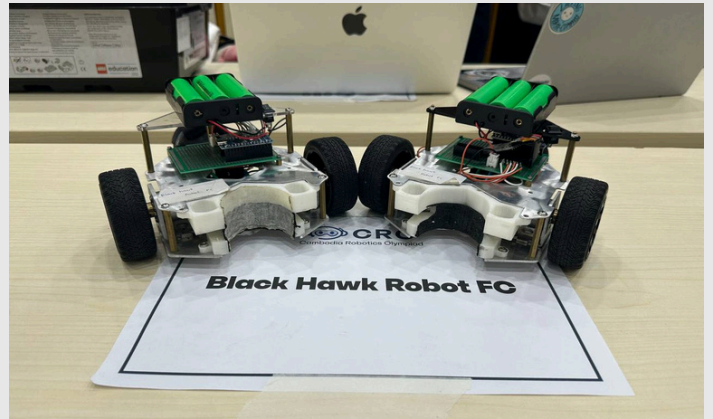
Thay: “First, we obviously had to design the model, then we printed that model. We coded its utilities and made it accessible for the three of us, and then we assembled it.”

“It’s better to do everything from scratch since you’d have a better overall understanding.”

-Mr. Nakul Dabas 2024

Mr. Nakul Dabas, the prideful advisor for Team Black Hawk Robot FC in the category “Robot Soccer” expresses utter enthusiasm and gratitude having mentored “well organised and educated learners” in their field. Here’s what he has to say about his overall experience.

Interviewed by: Mok Channatalyn, Huot Chansopheakpanha



*Black Hawk FC: First place winner of CRO “Robot Soccer”
Photographed by: Black Hawk Robot FC*

What was it like being their advisor?

Mr. Dabas: “I mostly focused on keeping the robot in shape because we knew that it’d go through a lot of “wear and tears” so it was crucial to take care of it. As for design, we thought about it carefully and considered the damage it’ll have to withstand so as you can see in the picture, the robots have a ball-shaped hole which makes it easier for them to carry it around and the fact that we assembled it from scratch also helped us realize our robot’s strengths and weaknesses.”

Were there any difficulties they had to face before and during the competition?

Mr. Dabas: “While the game was still going on, our second robot that we programmed for goalkeeping malfunctioned because someone tried to connect to it but we still won. This win was simply only a win because of those hardworking boys who put all their might into this.

Circular Digital Lab Cambodia's

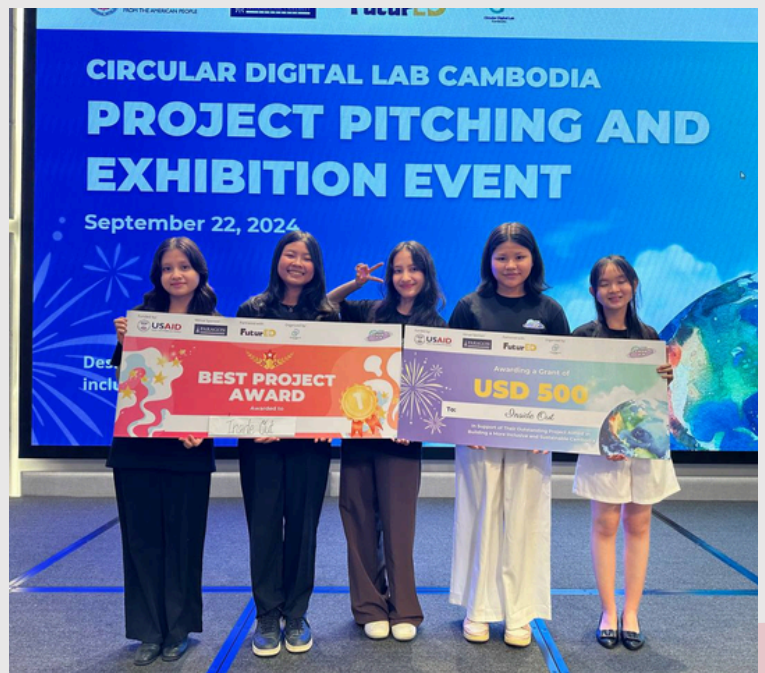
→ “Project Pitching and Exhibition Event”

#girlboss #womeninbusiness #demure

“Mental Hub” Startup Wins Top Prize in Project Pitching Competition !!

On September 22, 2024, AUPP senior student Lam Lykeo, secured first place in Circular Digital Lab Cambodia's “Project Pitching and Exhibition Event”. Competing in the Junior Leaders Program (JLP), her team earned a 500 USD grant from the USAID Cambodia Advancing Youth Leadership with their innovative startup idea, *Mental Hub*.

Her project, “*Mental Hub*”, reflects a growing advocacy for student well-being across Cambodia and symbolizes the power of youth-led initiatives to make a change.



Photographed by: Circular Digital Lab Cambodia



Photographed by: Circular Digital Lab Cambodia

From Idea to Impact

Want in on the Secret to Success?

Lam describes *Mental Hub* as “a workshop to facilitate the reintegration of youths into the school community.” She elaborates, “Public school students are often more susceptible to skipping classes and facing challenges at home. Our workshop essentially raises awareness about their mental health, aiming to support school faculty and parents in addressing the root problems so that they can take the necessary steps in reintegrating these students back into the community effectively.”

Despite her team’s victory over hundreds of other applicants, Lam maintains a humble attitude. When asked how she felt about the win, she simply replied, “It definitely made me more confident, but at the end of the day, I was just happy to have worked on the project.” What started as a passing summer project to keep busy eventually grew into a visionary effort to improve the community.

If you're hoping for an opportunity to bask in the same glory, take Lam's advice! Here's what she had to say!



Lam presenting her project

Photographed by: Circular Digital Lab Cambodia



Lam & team

Photographed by: Circular Digital Lab Cambodia

How do you look for opportunities such as a competition like this one?

Lam: “Look for them everywhere. Don’t wait for opportunities to be given to you. If you don’t look for it, you will lose it.”

What would you recommend to AUPP students when tackling any project?

Lam: “Go into your projects with an open mind. Focus on the problem first then look for the solution.”

Miss Lam also suggests surfing through Facebook!

Interviewed by: Ng Andy, Hok Yiwen