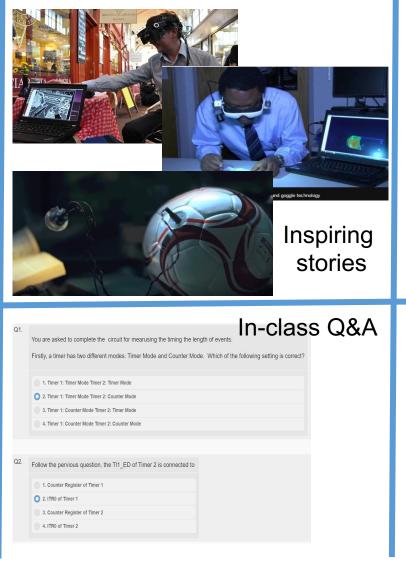
#### STEM Education across the APRU Network: Create Inclusive Learning Environments for Students

The Hong Kong University of Science and Technology WOO Kam Tim, Tim 08 October 2021

### In an embedded system course:



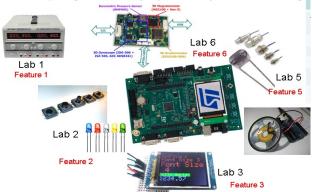


Peer-discussion on project proposal



#### Laboratory experiments

After completing the laboratory experiments, you are able to integra



### **STEAM Tutor Team**



School of Engineering School of 理學院

#### During COVID-19 Online (STEM@home video)





### **HKUST Robotics Team**







A family of ... Creativity Knowledge Hands-on experience Problem Solving Skills Teamwork Research

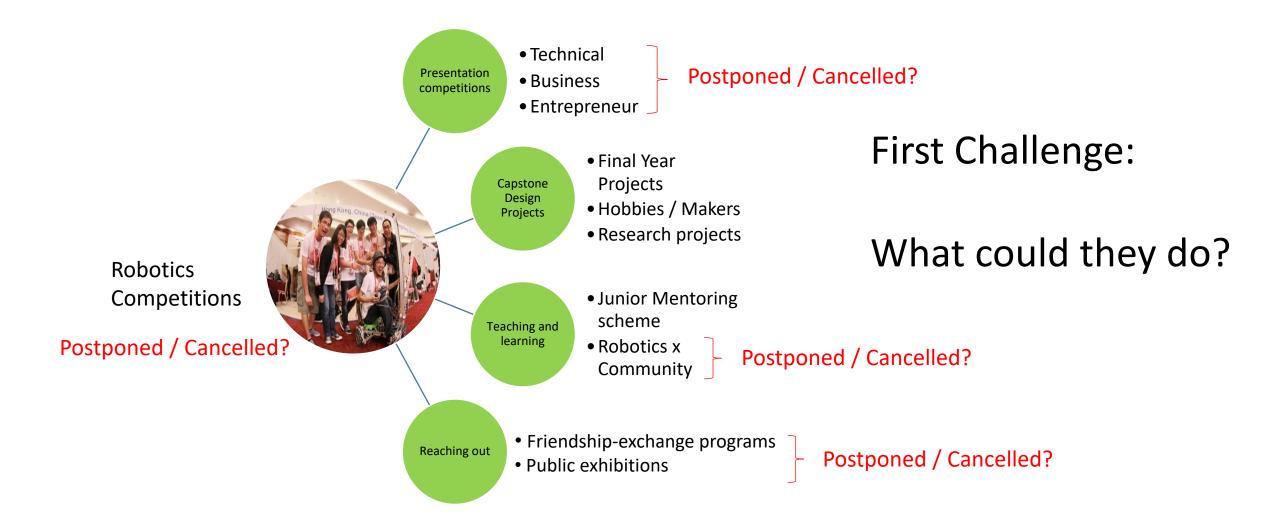








# In Feb 2020, everything online, social distancing...



### In Feb 2020, they decided to take any opportunities

Started their learning journey with the theme: Unstoppable













https://www.youtube.com/watch?v=Yly2gx4dafc

因唐碱低就是我的另一個象

Because the team is my family

# In Apr 2020, the COVID-19 pandemic .....

• Another challenge: STEM activities for youth and children.

Senior members started some new ideas – video streaming and making

#### Facebook Live

- STEAM learning session: Underwater Robotics



Short Videos

- related to automobile and Engineering



## In Jun 2020, the COVID-19 pandemic .....

Third challenge: STEM activities for HKUST students, youth and children. Another new idea – design STEM Workshops with staff and training other UG students

Online Workshop on Climbing Robots

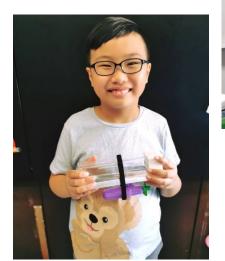




Online Workshop on Electricity



Apr 2021 Easy Robotics@Home Workshop







# In Sep 2020, the COVID-19 pandemic .....

#### Fourth challenge: Design remote STEM workshops with technical challenges

Underwater Robot Remote Driving Workshop for Families





