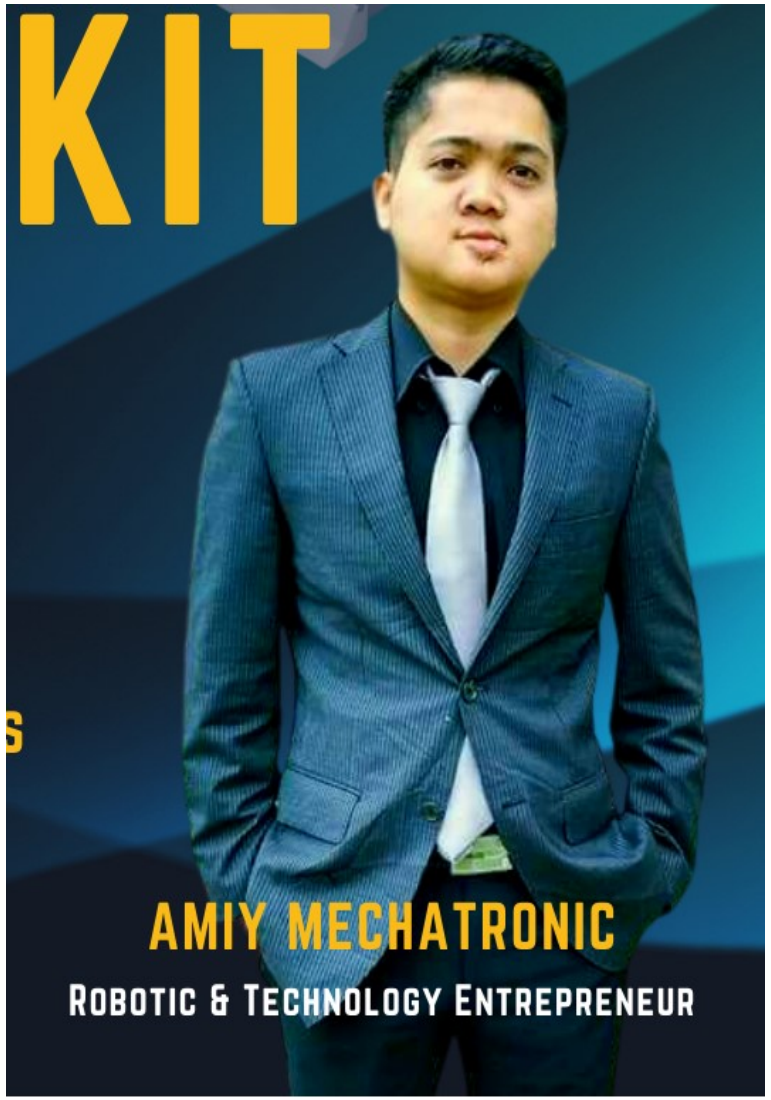
# ROBOTIC & COMMUNITY
# (UKQA2242-01 / UKQF2442-01)

## Introduction

26 Oktober 2021 |@ google meet

Muhammad Zulhelmi Bin Kamarudin

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# Salam

**MUHAMMAD ZULHELMI KAMARUDIN**
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**019-4387246**

**Sarjana Muda Kejuruteraan Elektrik (Mekatronik)**
**(UTM 2016)**

**Robotics & Technology Entrepreneur**
**MECHABOTICS ENTERPRISE**

UNIVERSITI TEKNOLOGI MALAYSIA (UTM)
MIRoC
CONQUER ROBOT

CHAMPION
FIRST RUNNER UP
honor 8X

2 YEARS AGO
PETROSAINS RBTX CHALLENGE 2018
GRAND FINALS
DATE : 11 - 12 AUGUST 2018
VENUE : DEWAN RAJA MUDA MUSA, SEKSYEN 7, SHAH ALAM
SECOND RUNNER UP
RM1,000.00
UTM

KARNIVAL DIGITAL
Indera Mahkota
REDMI NOTE 8
AI QUAD CAMERA
2020/8/15 17:38

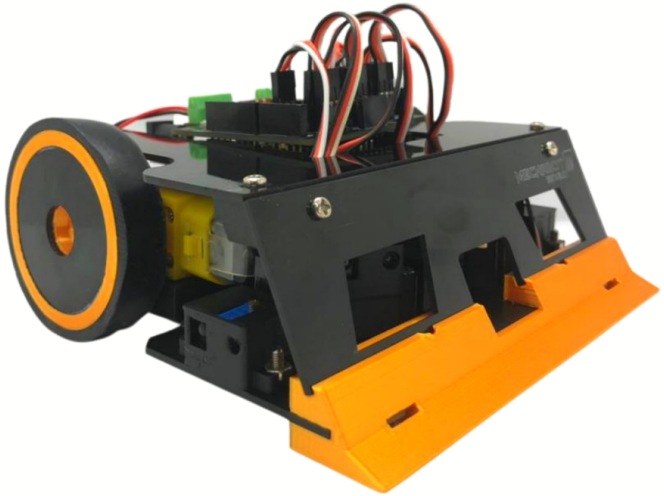
INATEX2015

Hack for Good
Consolation Prize: RM 3,000.00

# OUR PRODUCT

**ROBOT SUMO**

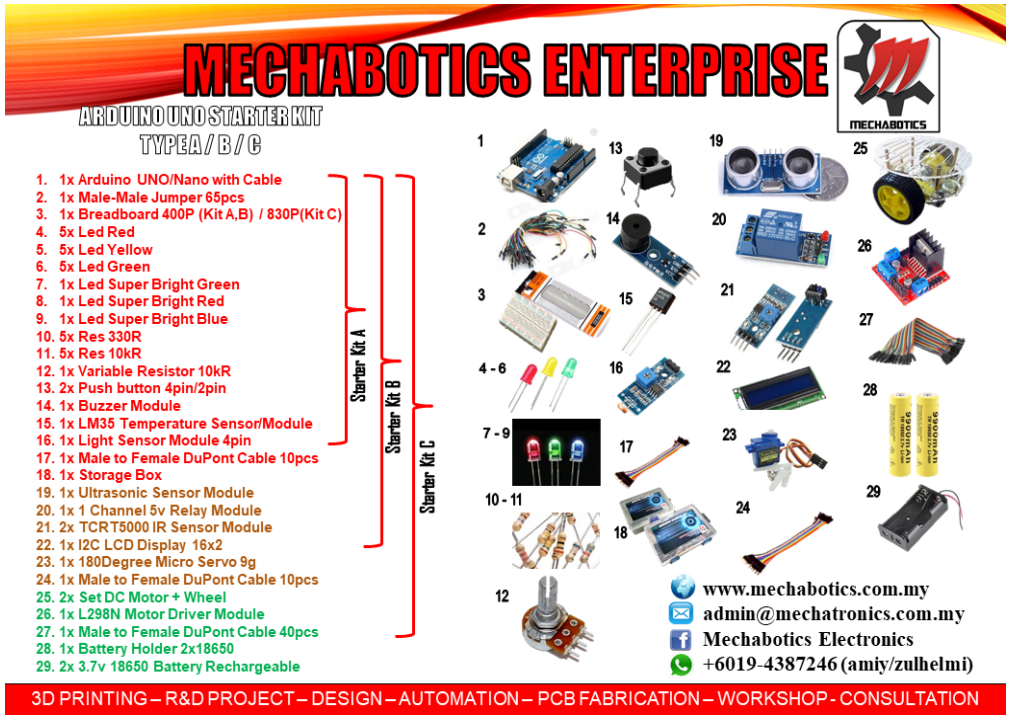
-EDUCATIONAL SET
-ADVANCED SET
-COMPETITION SET

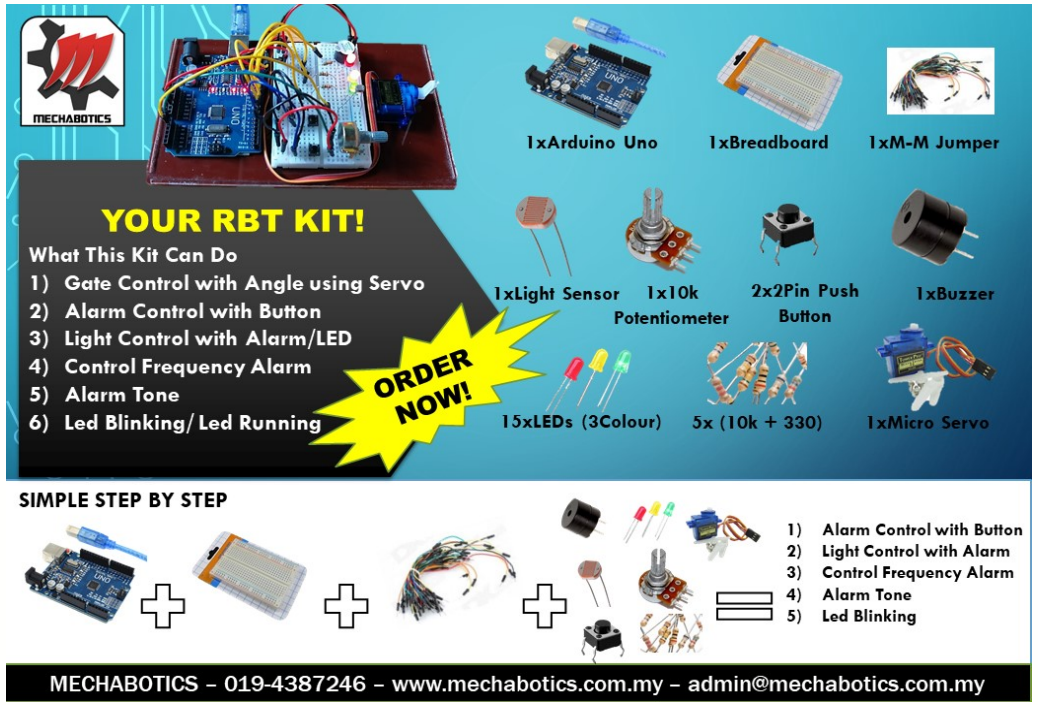


# OUR PRODUCT

## ARDUINO KIT

-EDUCATIONAL SET

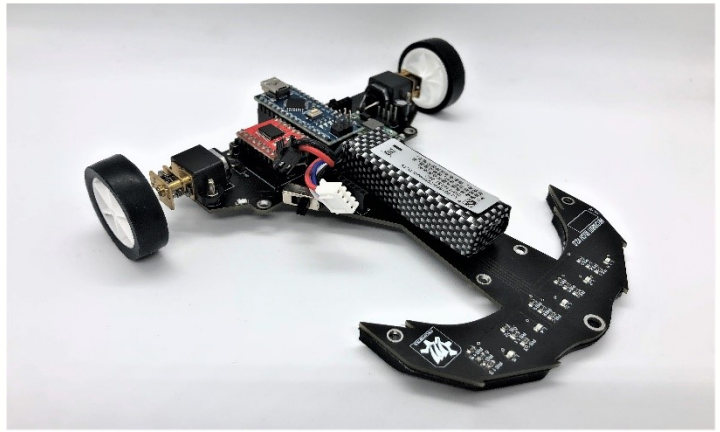


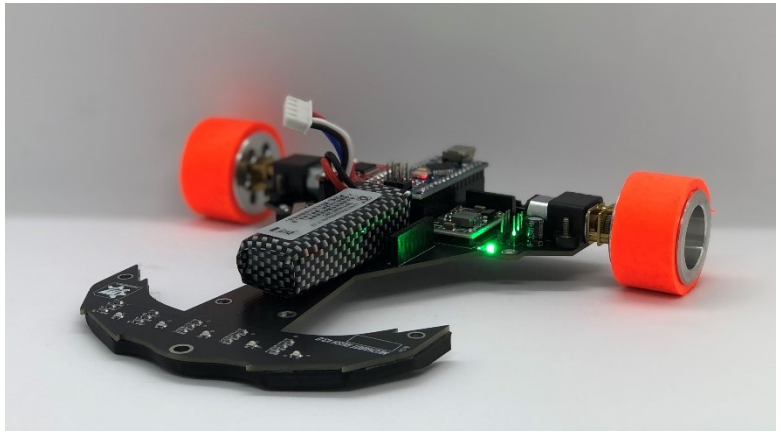



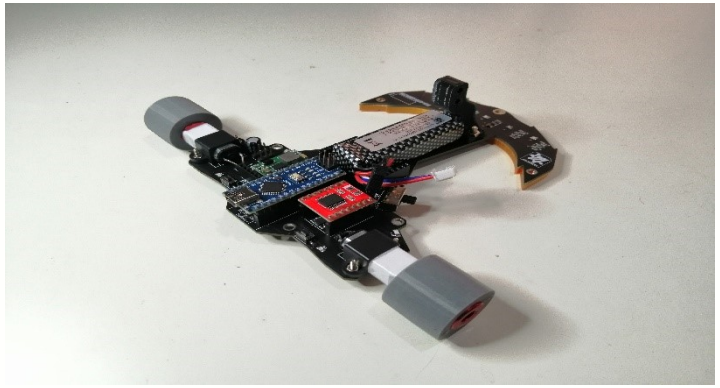
# OUR PRODUCT

**LINE TRACER ROBOT**

-NORMAL / UPGRADE / SUPERIOR



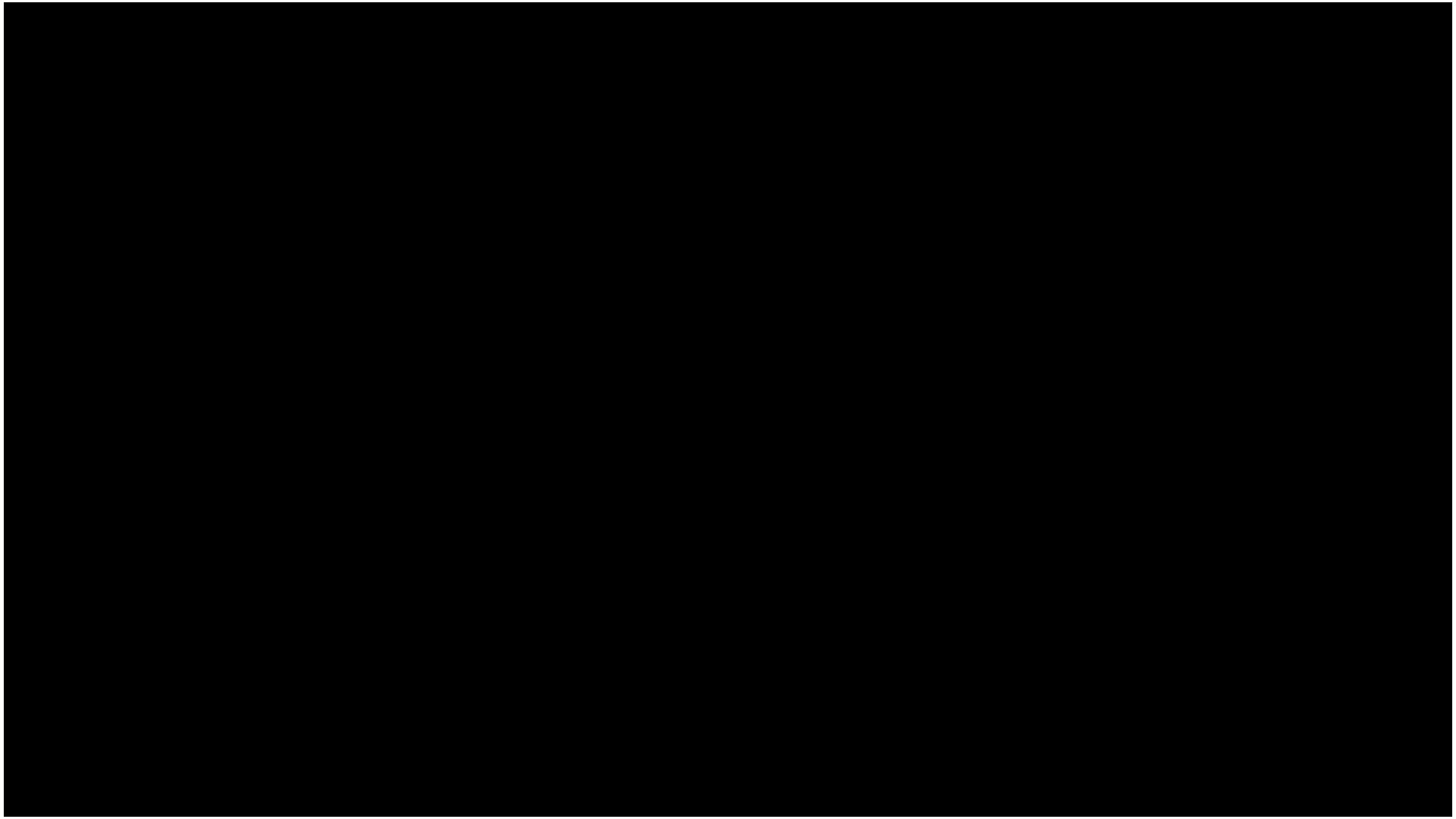




# Break the ICE!

# Lets talk about Robotics

Robotics is the intersection of science, engineering and technology that produces machines, called robots, that substitute for (or replicate) human actions.



https://www.youtube.com/watch?v=E8Ox6H64yu8&t=11s

https://www.youtube.com/watch?v=i6BHesYNgRQ

# How can we share to community about Robotics?

**SERVICE LEARING**

**With Selected School**

**With Selected School**

**With Selected School**

# How can I get an ‘A’ in this class?

| No. | Course learning Outcome | Taxonomies & Generic Skill | Assessment Method |
|---|---|---|---|
| 1 | Mengaitkan pengetahuan, aplikasi dan tren terkini dalam teknologi robotik kepada keperluan masyarakat. | SC | Assignment, Project |
| 2 | Menghasilkan robot mobil yang boleh bergerak berdasarkan persekitaran yang ditetapkan | TW | Project, Assignment, Competition |
| 3 | Menganalisis maklumat secara beretika, menghormati ahli kumpulan dan mampu mengambil tindakan yang melibatkan orang lain melalui aktiviti pembelajaran servis. | TW,GSE | Project in community, Assignment, Competition |

**Teamworking**

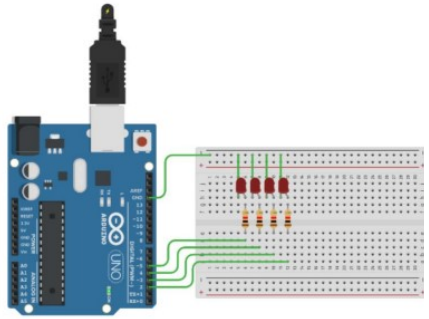
**Leadership**

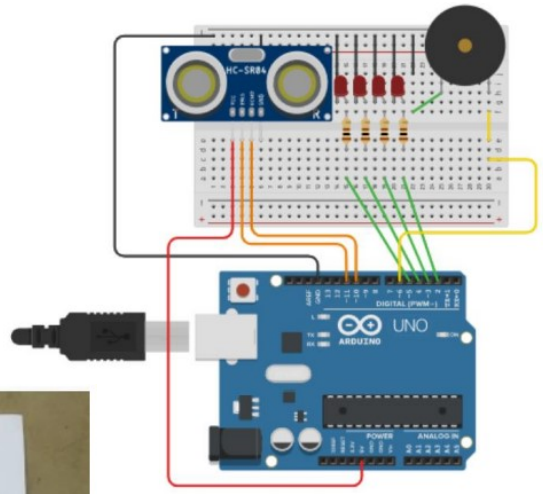
**Lifelong learning**

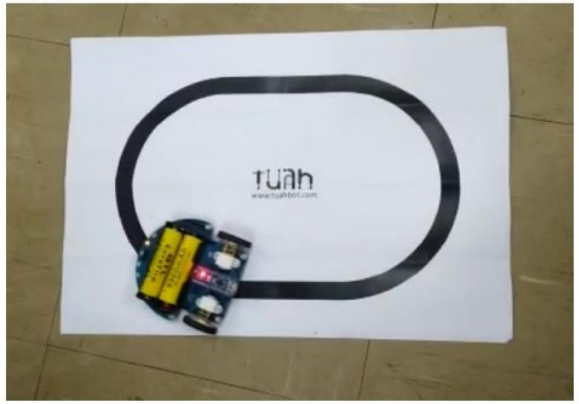
**Ethics, Moral & Profession-alism**

# What are we going to do in this class?

## PART 1






**We learn how program simple robotics**

## PART 2

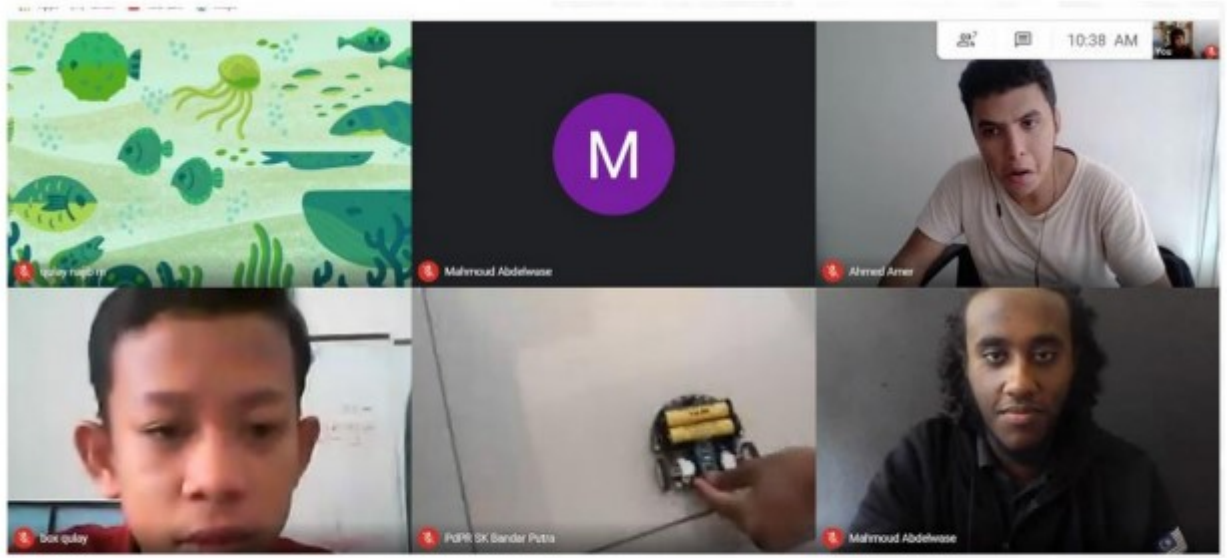
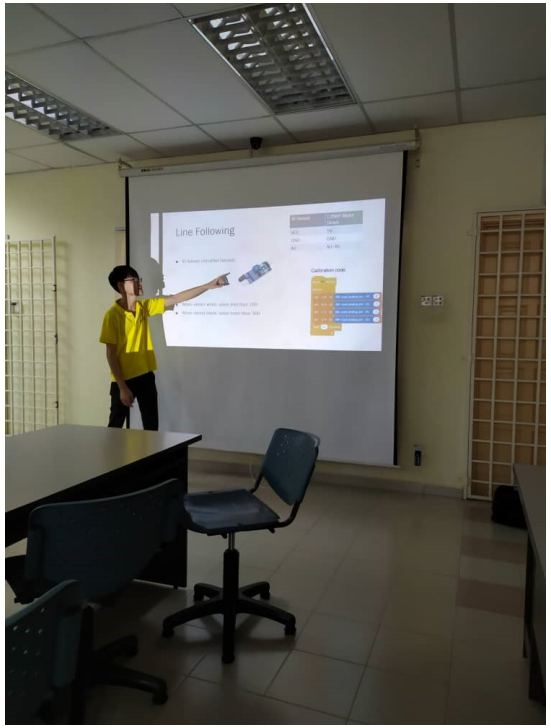



Figure: students presenting their motor movement task.

**We teach school students how to learn and program (online)**

# Previous Activity (2019)

**Service Learning at SMK Taman Nusa Damai, Pasir Gudang on November 2019**



# Previous Activity (2021/1)

**Online Service Learning**
**With SMK Taman Universiti 2**

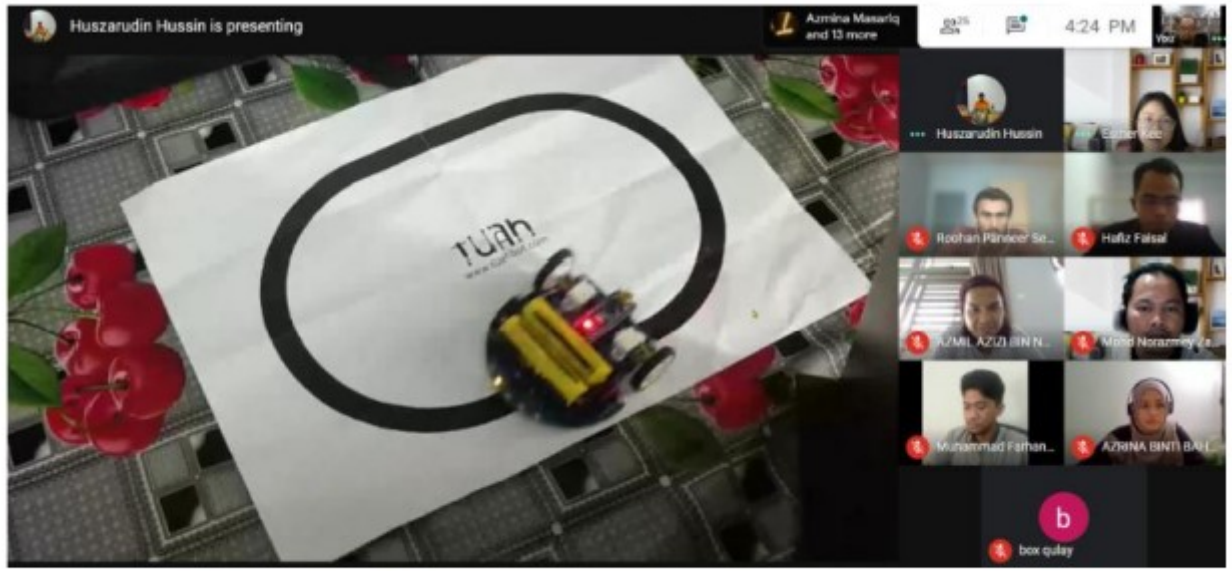



Figure: photo taken during closing ceremony

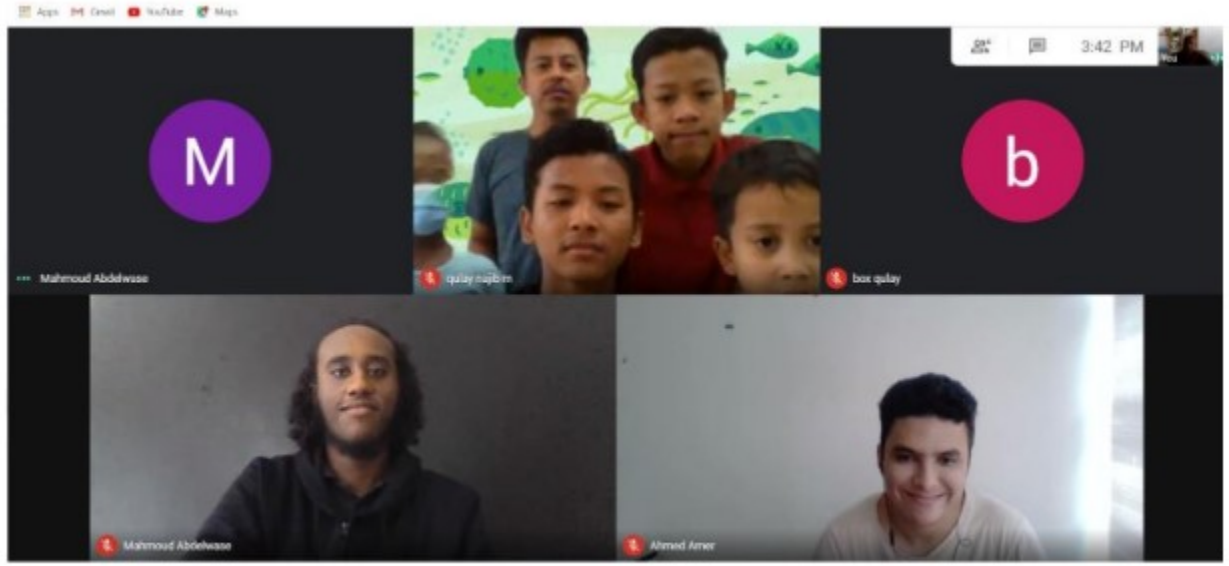



Figure: group photo of our students and their teacher.

# Previous Activity (2021/1)

**Online Service Learning**
**With SMK Skudai**

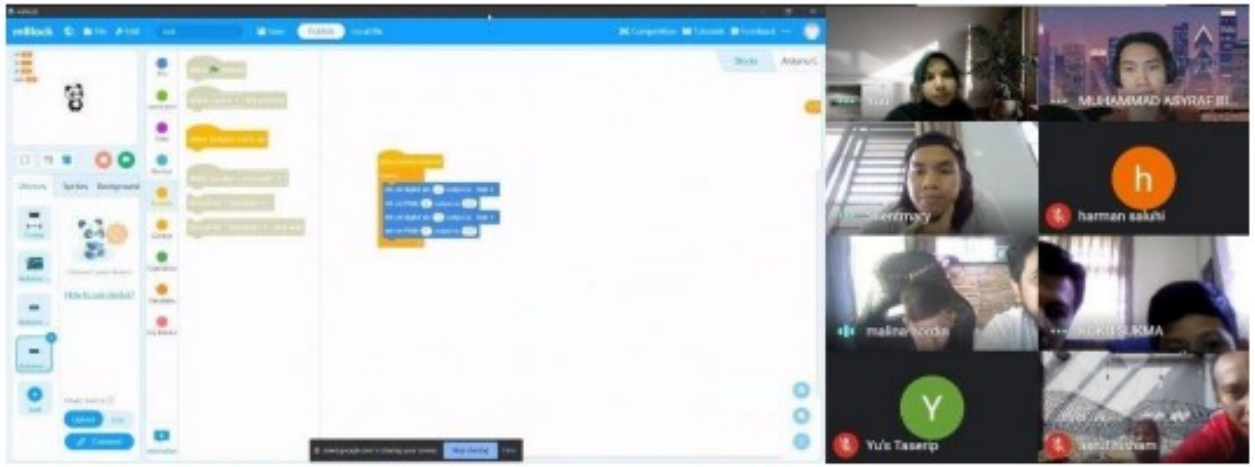



Figure: Participant Malina Nordin share his screen to show his code progress

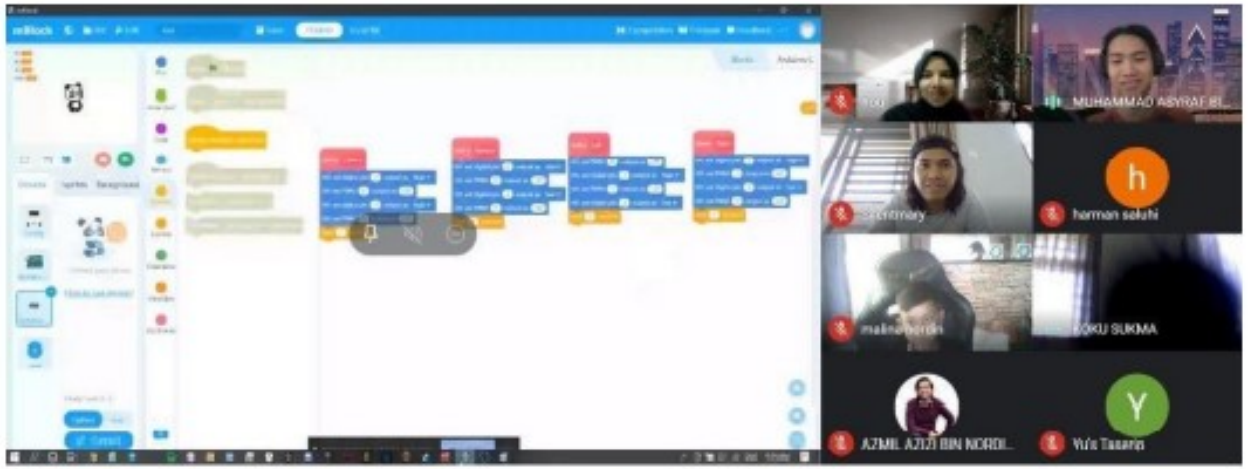



Figure: Participant Koku Sukma presenting his screen to show his code progress

# TEAM FORMATION :

Be an effective team member.

Everyone has to contribute…

# What do we need?

1. Form a team

2. Make a group contact, i.e. WA
3. Prepare a simple file and compile all documents
4. This class is 2 credit hours and **everyone has to commit to the class**! Avoid making other appointment during this time.
   **Any tardiness will affect your grade!!!**
   **Any non-appearance will put you in trouble!!!**
5. If a member of groups cannot come, other group members have to notify me.

# Next week assignment: (2/11/2021)

1. Find the most creative video on ROBOTICS (any kind of robots)
2. Download the video and send a copy to Mr Zulhelmi
3. Share in class, ‘what is so special about the video?’
4. Write in one-page A4 size paper,

   Title:

   Source of Video:

   What is so special about the robot:

   Give your opinion, ‘Can we have the robot in UTM’? Why?

5. Your presentation in 5-8 minutes..

# GROUP for All students

-WhatsApp
-Telegram