

# Welcome!!!

## Summer Student Research Assistants



# Who am I?

- Current Student Project Development Officer in Innovation Wing
- HKU MECH 2022 Graduate
- 1st Generation InnoWing SRA
- Former BREED ROBOTICS Leader





# What did you go through?

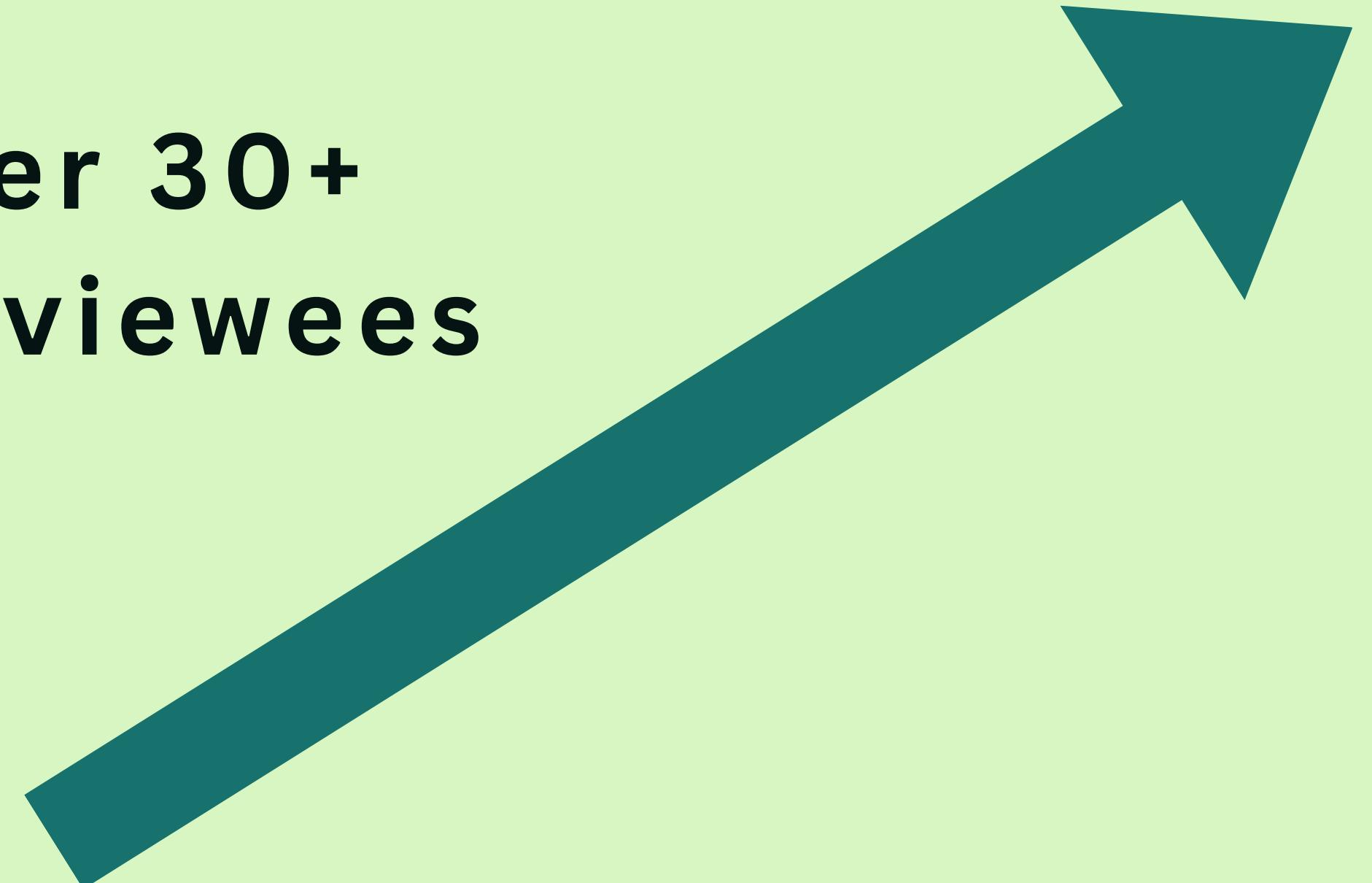


# How hard is it to join this year?

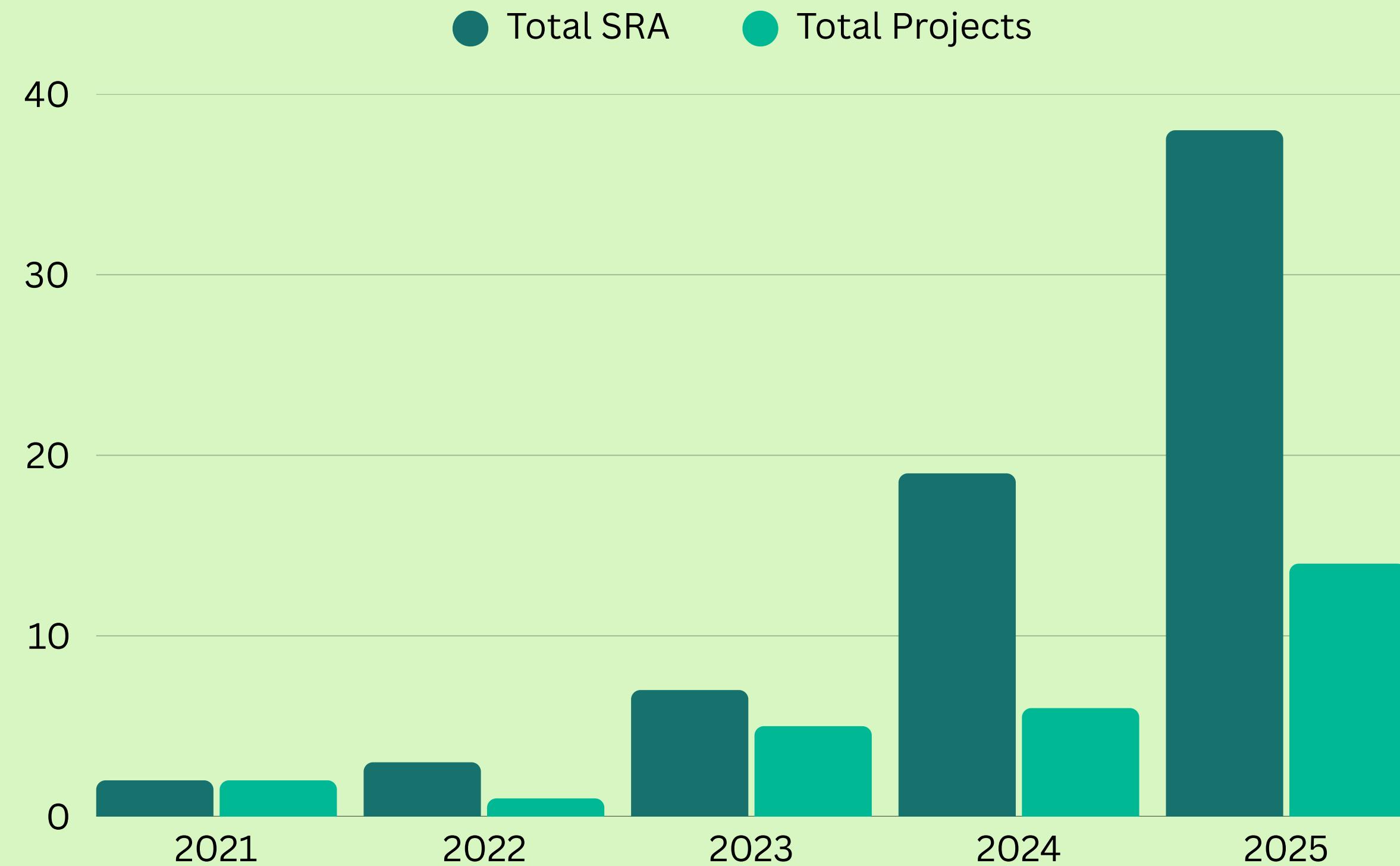
Over 70+  
applications

Over 30+  
interviewees

20 final offers



# Growth of our team





# Expectations



# Professional

- Always be prepared
- Punctual for all events

# Curious

- Stay hungry, stay foolish
- Keep exploring the best results

# Teamwork

- Communicate with your team regularly
- Explain to prevent misunderstanding
- Don't worry about failure, focus on making it work

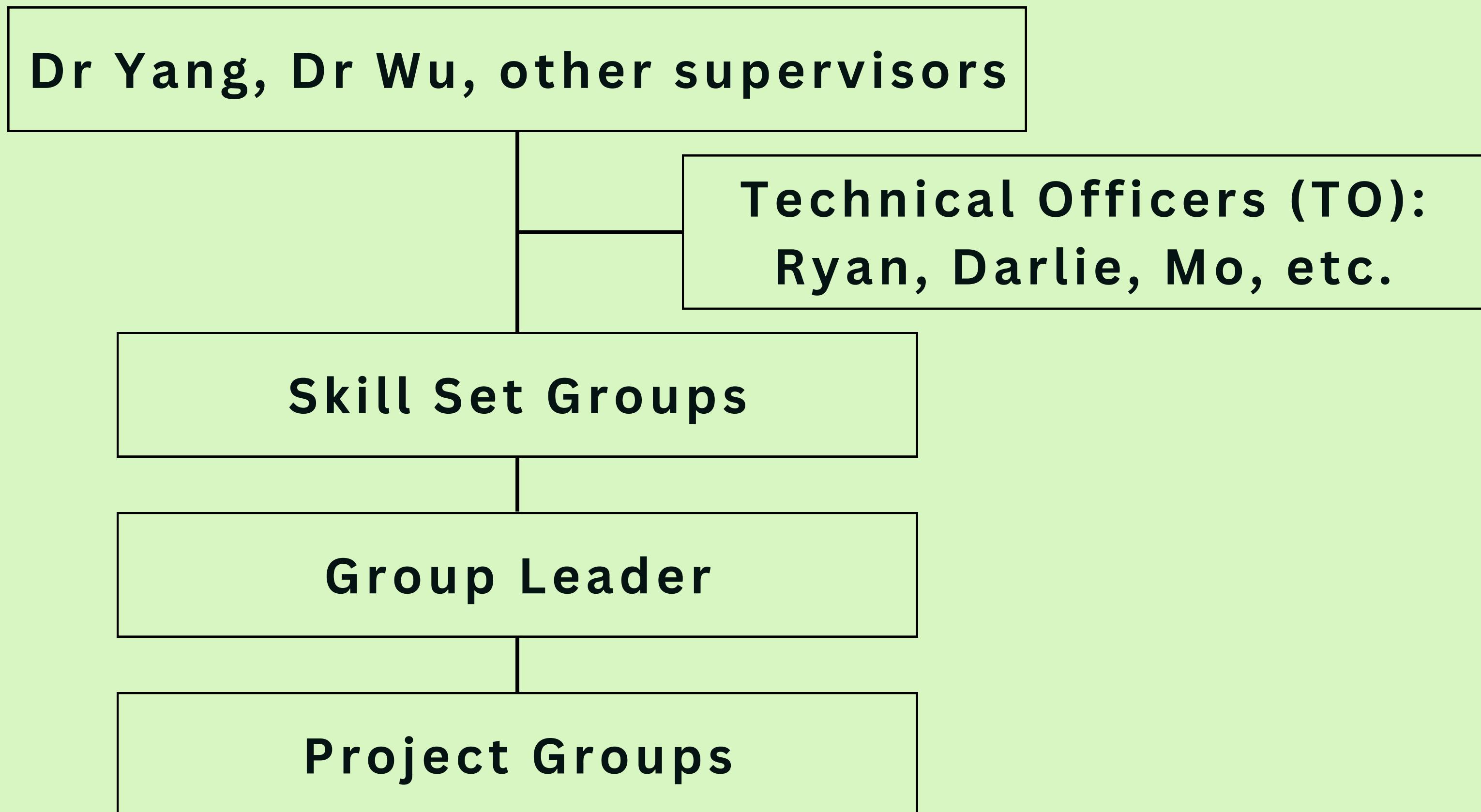




# Work Arrangements



# Team structure



# Schedule - Daily

**Working Hour: 9:30am - 6:00pm**

**Lunch hour: 1 hour between 12:00nn - 2:00pm**

**Scan QR code at entrance to record your  
come and leave time!!!!!!**

**And btw, come get your badge first**

# Important dates for Week 1

## **June 3rd: Robot arm control with python + Coding practice**

Recap python and OOP; good coding practice for collaboration; environment management

**Start at 10:30 am sharp  
Be punctual**

## **June 4th: Hand eye calibration**

Goal: matrix, coordinate transformation for different projects

## **June 5th: Object detection with YOLO**

Goal: How to train an AI model for a real-world application and its limitations.

## **June 6th: Robot arm challenge**

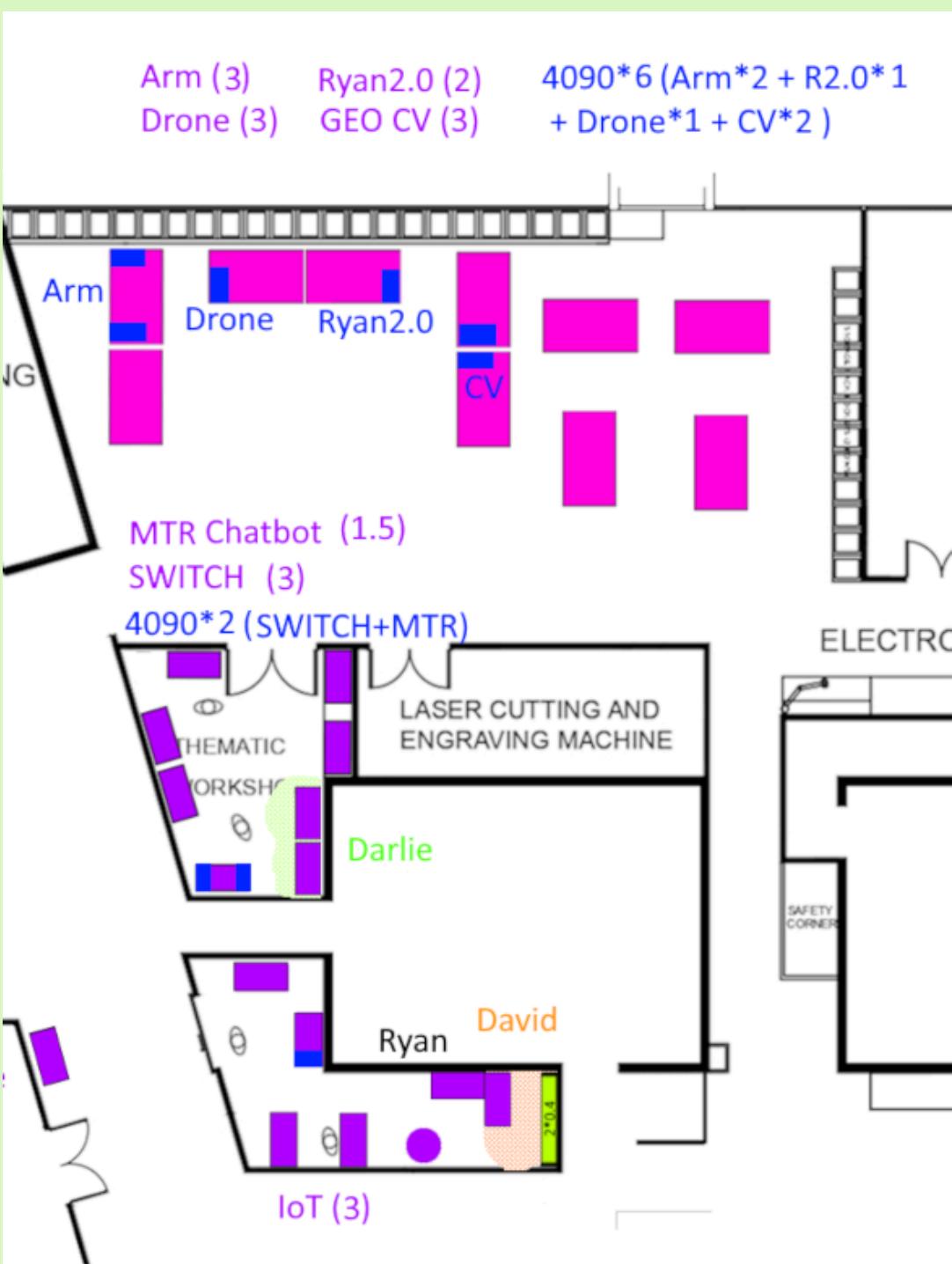
Methods other than YOLO for object detection (for estimating the pose and segmentation) are encouraged.

# Schedule - First week

AM	<ul style="list-style-type: none"><li>• Staff Briefing</li><li>• Team introduction</li></ul>	<ul style="list-style-type: none"><li>• Arm Control</li><li>• IW Coding Practice</li></ul>	<ul style="list-style-type: none"><li>• Camera Calibration</li></ul>	<ul style="list-style-type: none"><li>• Object Detection</li></ul>	
PM	<ul style="list-style-type: none"><li>• Ice breaking</li><li>• Get to know your project zone and tasks</li></ul>	<p>Drone and Crack team going for a hike</p>			<ul style="list-style-type: none"><li>• Robotic Arm Challenge</li></ul>

# Seating Plan (Starting from Week 2)

## Upper Floor



## Lower Ground



# Leave Arrangement

Seek for approval from Dr Yang or Dr Wu  
**ONE WEEK IN ADVANCE.**

Email to:

- [innowing@hku.hk](mailto:innowing@hku.hk)
- [lyang125@hku.hk](mailto:lyang125@hku.hk)
- [wukevin@hku.hk](mailto:wukevin@hku.hk)
- [ryancck@hku.hk](mailto:ryancck@hku.hk)

for record,

**email to all of the above!!!!!!**

**Remarks:**

To maintain good progress, you need to finish more before leaving if you applied for leave.

# Work Practice

1. Communication
2. Documentation
3. Presentation
4. Technical Report



# Work Practice - Communication

Whatsapp for daily communication

Email for important information/ documents



# Work Practice - Documentation

**Log in our Innowing intern gmail first. (PW in whatsapp)  
Then log in Notion with the google account.**



Armstrong

Search

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Private

New page

+ Add new

Teamspaces

- Armstrong
- Development Plan
- GEO Robot
- Bin Picking Challenge
- Robot Arm
- Learning Materials & Do...
- Teaching
- Interns Summer Worksh...
- HRI 2025
- VLA Robotics

Board view

## Progress Report & Meetings

- Jun 21 Meeting Done
- July 19 Meeting Done
- Aug 26 Presentation Done
- Aug 26 Discussion Done
- Sep 12 Demo Done
- Sep 18 Meeting Done
- Feb 4 Meeting Done
- Feb 7 Meeting Done
- Feb 28 meeting Done
- Mar 18 Meeting Not started
- Apr 11 Meeting Not started

+ New page



# Prepare for training



# Set up

