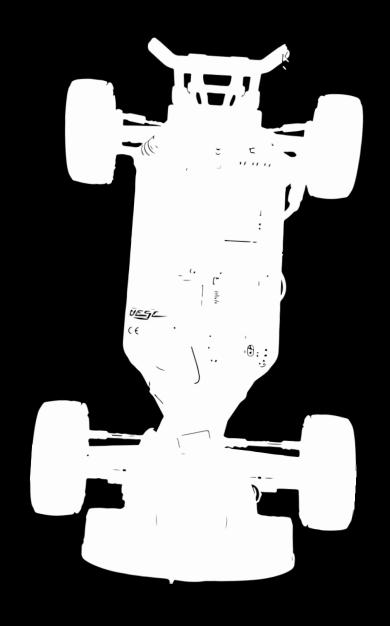


INTRO MEETING

OINTRODUCTION

2024

- **•INTRODUCTION**
- THE ORGANIZATION
- PROSPECTIVE RESEARCH PROJECTS
- •STRUCTURE
- OFFICER POSITIONS
- ADVISORS AND PROFESSORS
- \*COMPETITIONS
- QUESTIONS



#### THE ORGANIZATION



- Hope to be the first high school team to win F1Tenth, a collegiate autonomous racing competition.
- Start off with quality graduatelevel research papers to establish presence, advised by cracked people.
- After acquiring funding, will move into working on the car



- Will compete at competitions along the way to F1TENTH (Fall 2025)
- Soon, applications to help members find what research group they would like to be in / which group best suits them
- Extensive experience not needed! Beginners and experts will find quality projects that are useful to them and the field



#### PROSPECTIVE RESEARCH PROJECTS

- Will work on Al agents for simulation racing, simulating dynamics of car, etc.
- Eg. Learning a Racing Simulator, working on optimizing a model over F1 tracks to transfer.
  - Will be used in Berkeley **ROAR** simulation racing competition in December.



autonomous car software visualized

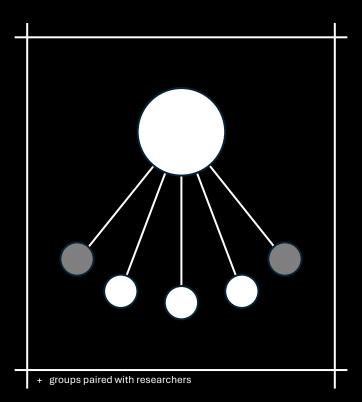
- Advised by students from collegiate racing teams (Waterloo, Berkeley, etc.) and professors and industry experts (Meta, Google, etc.).
- No idea for project? Can join other groups or meet with advisors to decide one.
- Worried about skill level? We will have simpler projects (writing libraries to speed some process, etc.).



## STRUCTURE



- Pair researchers in groups of 3 5 based on skill level to work on their own research projects guided by their mentor and respective group lead
- Each group will work on their own (published!) research project on various topics of interest

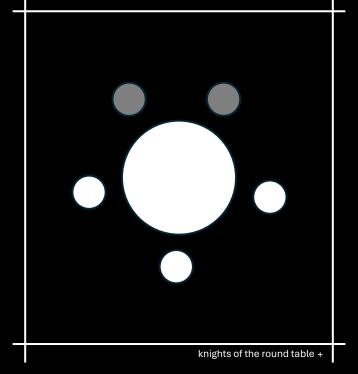


Soon restructure into team for competitions such as F1TENTH where we will build RC-style cars and race against collegiate teams

#### OFFICER POSITIONS



- Group lead Handles and leads respective research group and is first-author on publication
- Director of Communications Handles all aspects marketing and strategy development, especially communications with sponsors, prospective advisors, etc.



Director of Finance - Handles financial aspects of acquiring funding and how money is spent throughout the organization

More to come soon!

### ADVISORS AND PROFESSORS



- We'll have the support of leading academic and industry professionals from Waterloo, UC Berkeley, Meta, Google, and Stanford
- Advisors will help each group complete their research projects and provide general guidance for the competitions



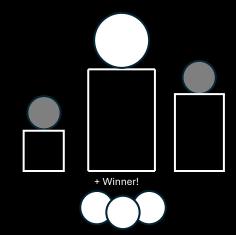
With this guidance, we're well-positioned to make significant strides in upcoming seasons



#### COMPETITIONS



Planning on participating in Berkeley ROAR (high school and early college teams) for winter and summer simulation races



- F1Tenth competition will be held around October of next year – the ultimate goal
- More info can be found at fltenth.org

# QUESTIONS?