Final Project Proposal

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What

We'll build an application on pioneer to achieve the followings:

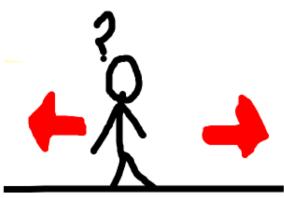
- 1. Help people to **find the target location** they want to go
- 2. Guide people through the whole CS-building.
- 3. Proactively help people when they are in needs.

We call it CSIE-Retriver



Why

Sometimes, some people want to visit CS-building but they don't know where bathroom or elevator is. Additionally, lots of CS-students are too busy studying to help those people out. Therefore, with the aid of CSIE-Retriver, newcomers can immediately find the target and furthermore, have a thorough understanding of CS-building.



How

- Hardware
 - Pioneer
 - o Hokuyo URG-04LX-UG01
 - o Realsense D435i
- Software
 - ARIA Library
 - ROS
 - ROSARIA
 - p2os
 - slam-gmapping
 - **...**
- Simulation
 - Gazebo

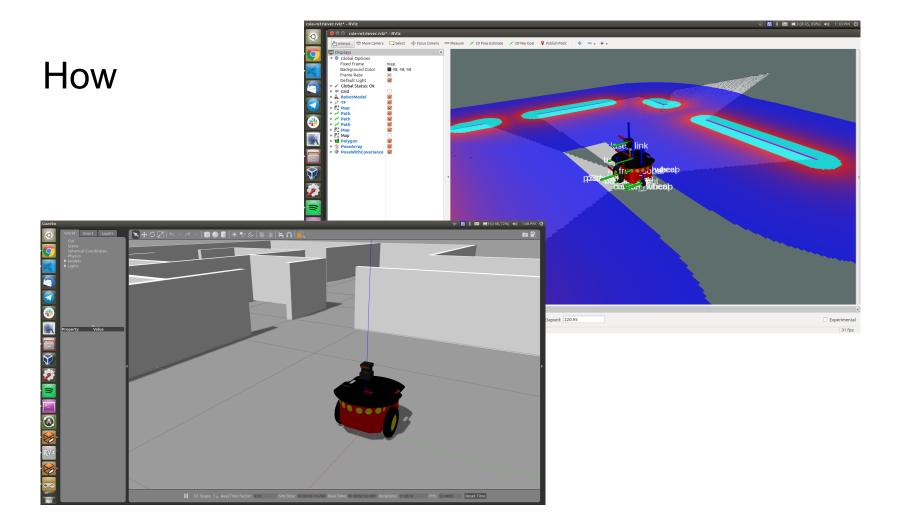












When (Schedule)

11/18 ~ 11/24	setup environment for our pioneer (1)
11/10 11/24	setup environment for our pioneer (1)
11/25 ~ 12/1	setup environment for our pioneer (2)
12/2 ~ 12/8	reconstruct the map in our environment (1)
12/9 ~ 12/15	reconstruct the map in our environment (2)
12/16 ~ 12/22	plan on how to guide people through CS-building
12/23 ~ 12/29	porting SR and NLP services on our pioneer
12/30 ~ 1/5	refine our works
1/6 ~ 1/12	add additional features

Who

施承志: study topics mentioned, write codes

夏瑜: study topics mentioned, write codes

陳邦元: study topics mentioned, write codes

Thanks