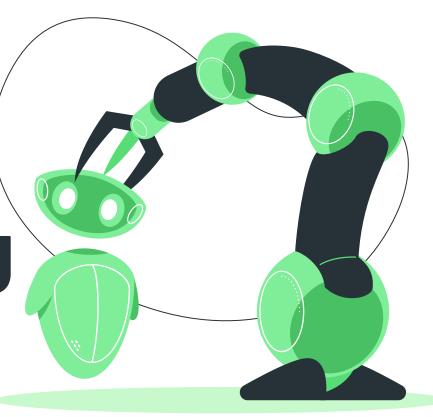
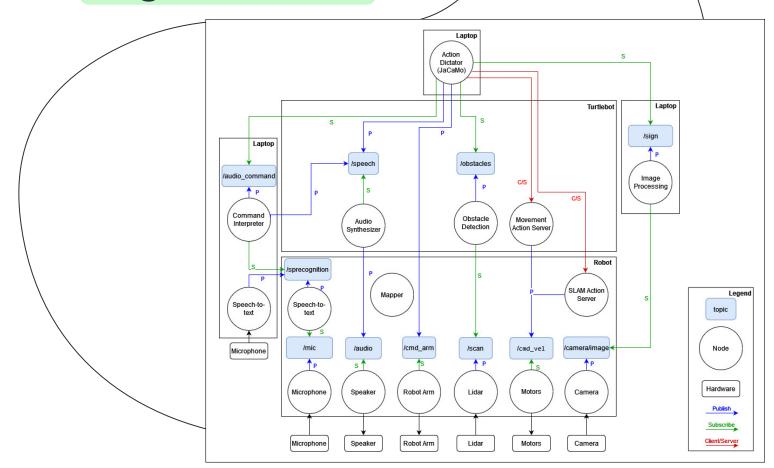
Integrating and Engineering Intelligent Systems



Organization



Repartition of the work



Arcady

Setup (LOW)

Action server (MEDIUM)

Action dictator (HIGH)

RDF (MEDIUM)



Quentin

Audio processing (MEDIUM)

Image processing (HIGH)

Microphones (MEDIUM)

Custom messages (LOW)

Obstacle detection (MEDIUM)

Improvement Suggestions

Obstacle detection: Cover more
orientation (ex: 8 orientations)

Command interpreter: Add commands transporter, prendre and déposer

Image Processing:

- Compress the image before sending it to prevent saturating the network
- Avoid outsourcing the processing to a computer
- Testing the color of 2 and 3 strips
- Activate the sign processing only when needed

Action dictator

- More advanced obstacle avoidance
- Add the possibility to create several objects at once
- Smarter red-light handling
- Shift the position of workstations next to signs
- Add a proper stop instruction

Microphones

- Fix the microphone on the robot
- Investigating with local speech-totext to reduce the delay

Demonstration











