IntelChair

Project in Informatics Engineering 2018/2019 Mid Semester Presentation

Group 7

- André Neves
- Diogo Marques Marco Silva
- Fábio Alves

- Marcelo Fraga
- Miguel Dinis

Mentors: Nuno Lau, José Luís Azevedo, Artur Pereira, Bernardo Cunha

Context

In a working environment people need to move from place to place





While doing so, they waste time and energy

IntelChair







Laptop



RGBD Camera



Laser Rangefinder



Inertial Motion Unit

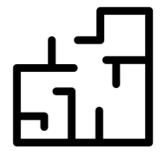
Motorized Wheelchair

Main Features



Manual Control

Through a joystick in the Mobile Application



Room Mapping

With all available sensors



Navigation

With a generated map and the sensors

Extra Features



Voice ControlThrough the Mobile Application

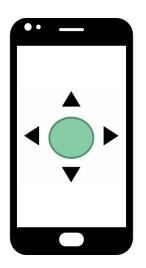


Follow UserUsing the camera in the front

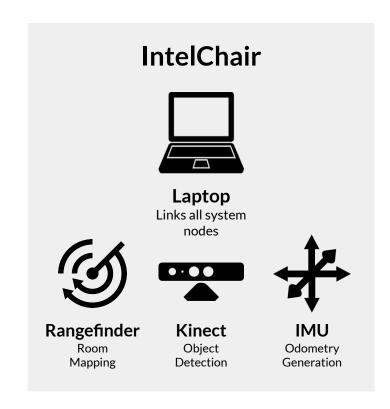


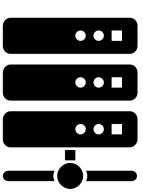
Object Avoidance
Avoid objects that are not present in the map

How it works



SmartphoneMobile Application for the user





ServerUser access and Map management

How it looks





