Samsung Open Source Conference 2019
일반인들이 만들어가는 오픈소스

하지현
2019.10.17

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일반인들이 만들어가는 오픈소스

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ROS를 접하다

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ROS를 접하다

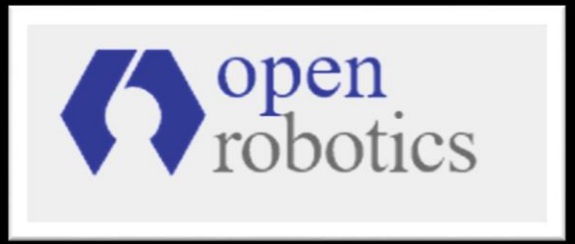
ROS 오픈 세미나

ROS를 접하다

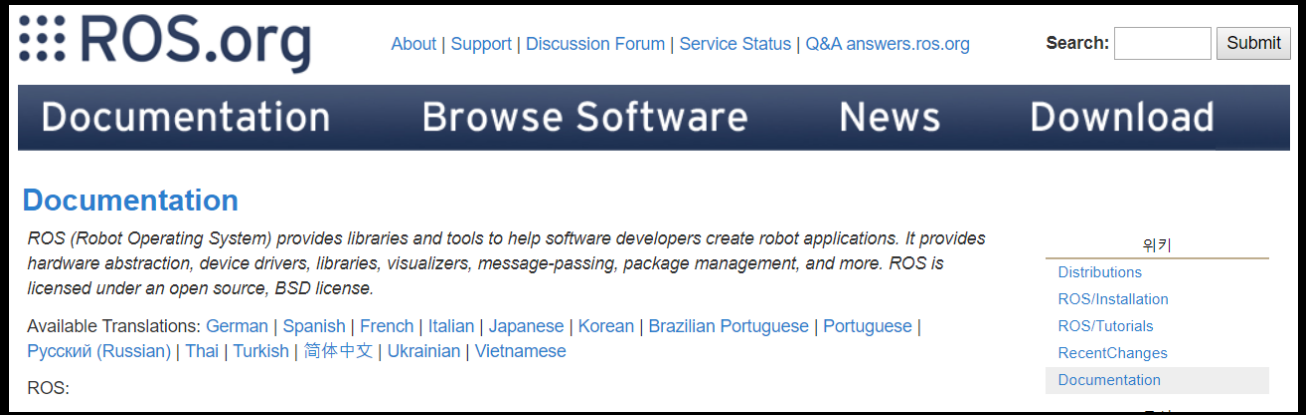
ROS의 특징

1. 통신 인프라 제공
2. 로봇 관련 다양한 기능 제공
3. 다양한 로봇 개발 도구 지원
4. 적은 하드웨어 의존성
5. 오픈소스

ROS를 접하다


open
robotics

ROS.org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ROS (Robot Operating System) provides libraries and tools to help software developers create robot applications. It provides hardware abstraction, device drivers, libraries, visualizers, message-passing, package management, and more. ROS is licensed under an open source, BSD license.
Available Translations: German | Spanish | French | Italian | Japanese | Korean | Brazilian Portuguese | Portuguese | Русский (Russian) | Thai | Turkish | 简体中文 | Ukrainian | Vietnamese
ROS:
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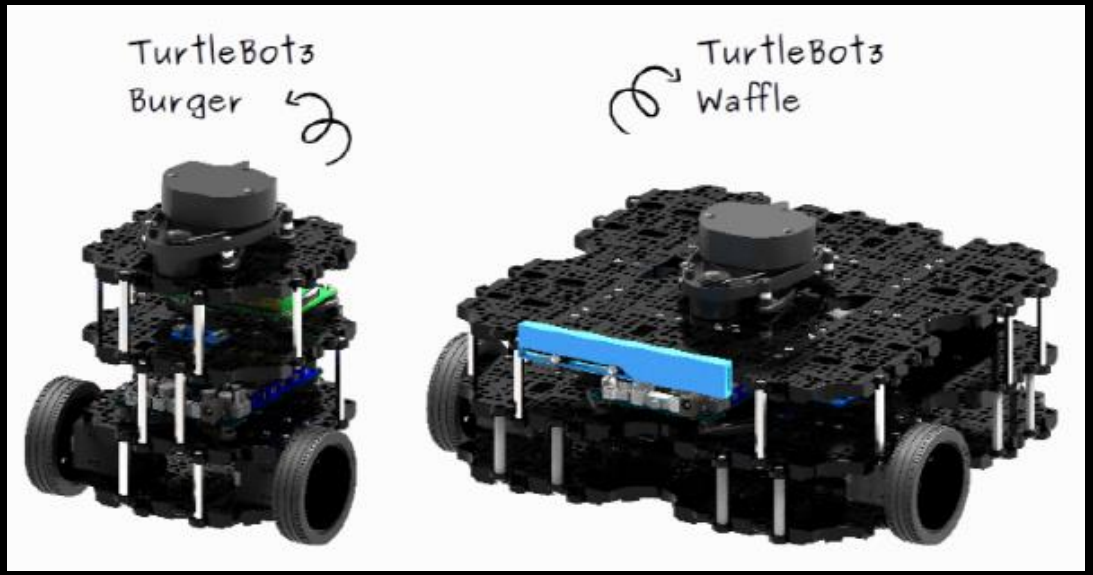
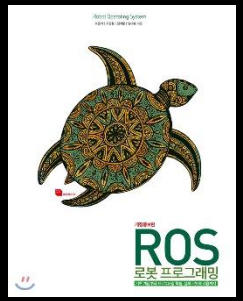
Distributions
ROS/Installation
ROS/Tutorials
RecentChanges
Documentation

ROS를 접하다

나의 ROS 공부기

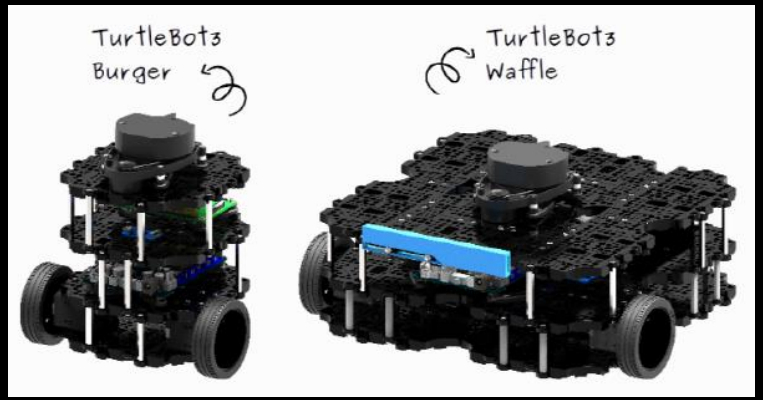




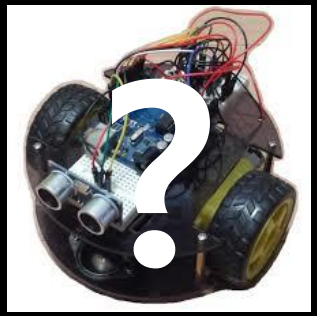
모바일 로봇 개발 과정

모바일 로봇 개발 과정

모바일 로봇 컨셉



660,000원 1,540,000원



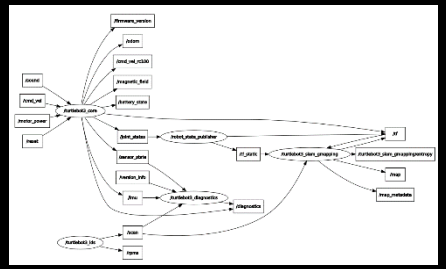
저렴한 터틀봇

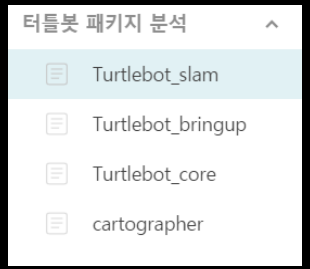
모바일 로봇 개발 과정

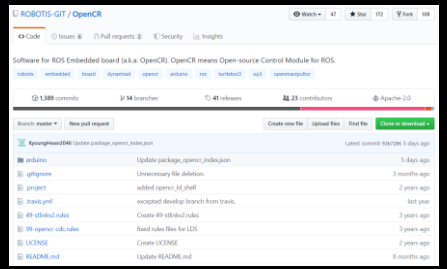
오픈 소스 선택

Core : 터틀봇3 Burger
SLAM : Cartographer, Hector SLAM

오픈 소스 분석







모바일 로봇 개발 과정

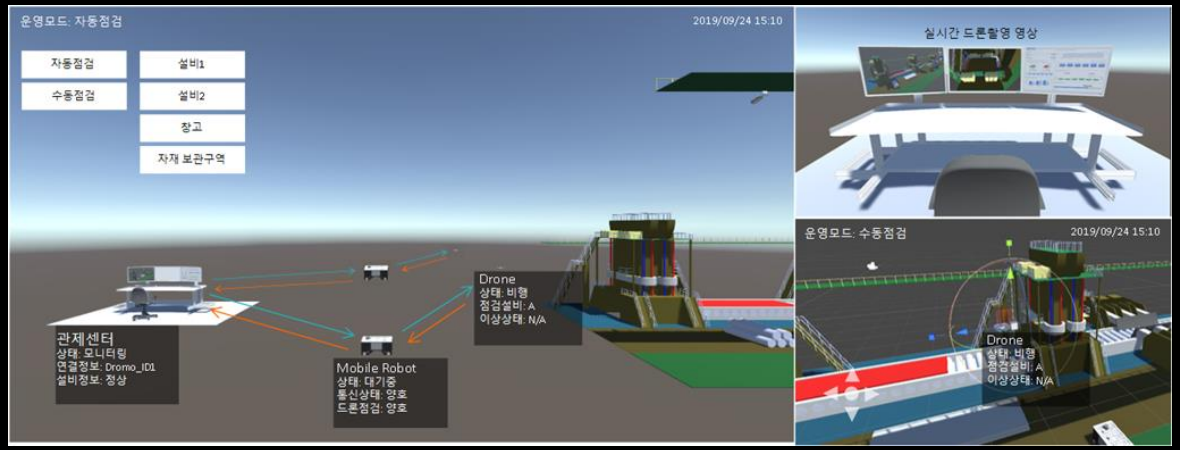
결과

한국지능로봇경진대회 준비기

한국지능로봇경진대회 준비기

로봇 컨셉

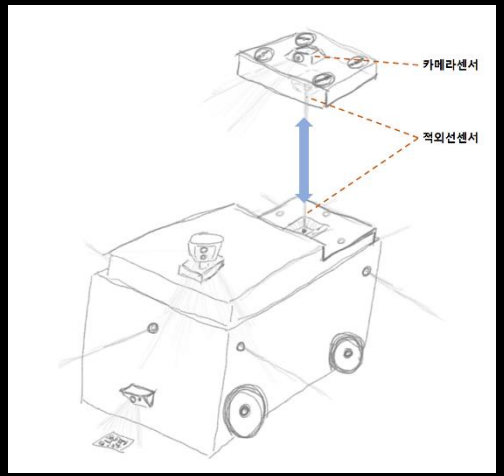
- Dromo (Drone + Mobile robot)
- 실내 환경에서 대규모 설비를 안전하게 점검할 수 있는 로봇
- 드론은 카메라 혹은 기타 센서를 이용해 고소지역의 설비를 점검
- 모바일 로봇은 점검이 필요한 설비가 위치한 곳으로 드론을 안전하게 이송

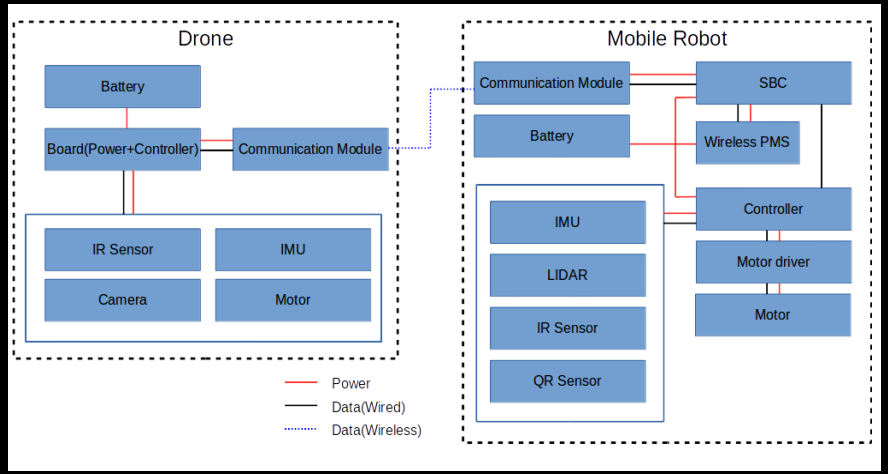


Dromo application with Unity, 남영욱

한국지능로봇경진대회 준비기

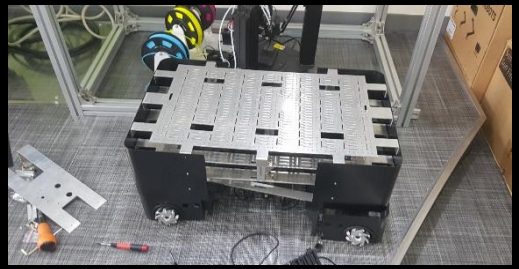
개발 과정

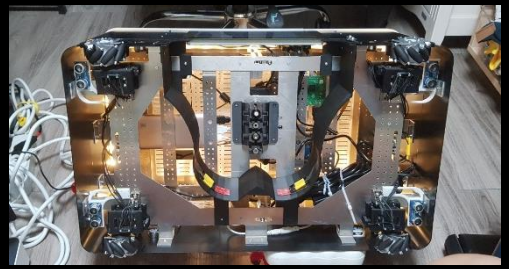


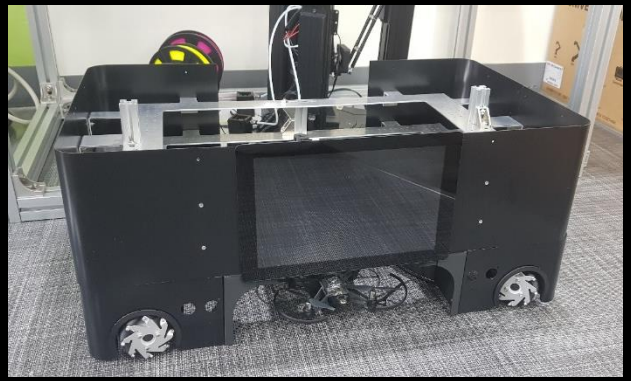


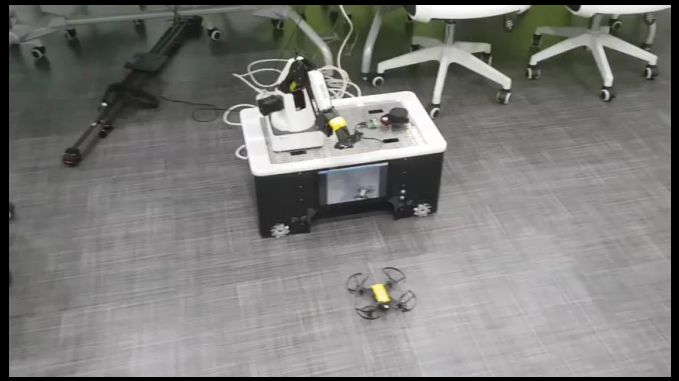
한국지능로봇경진대회 준비기

개발 과정









한국지능로봇경진대회 준비기

결과

일반인들에게 오픈소스란?

일반인들에게 오픈소스란?

새로운 기회!

THANK YOU

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