



Perception : Map Building

TEAM SUPREME DOODLE (PROJECT#3 TEAM 1)

Problem Statement

To set random exploration in Project3.world, using '*front-laser*' configuration

Write mapping program to terminate in 10 minutes

Generate 3 maps (Good, Average, Bad)

Creating a Launch file; bringing Gazebo, Jackal and Mapping program

Initial Approach

- Figuring out the topics to be published
- Writing required messages to nodes to publish
- Wrapping all the stuff in a launch file
- Collecting map data

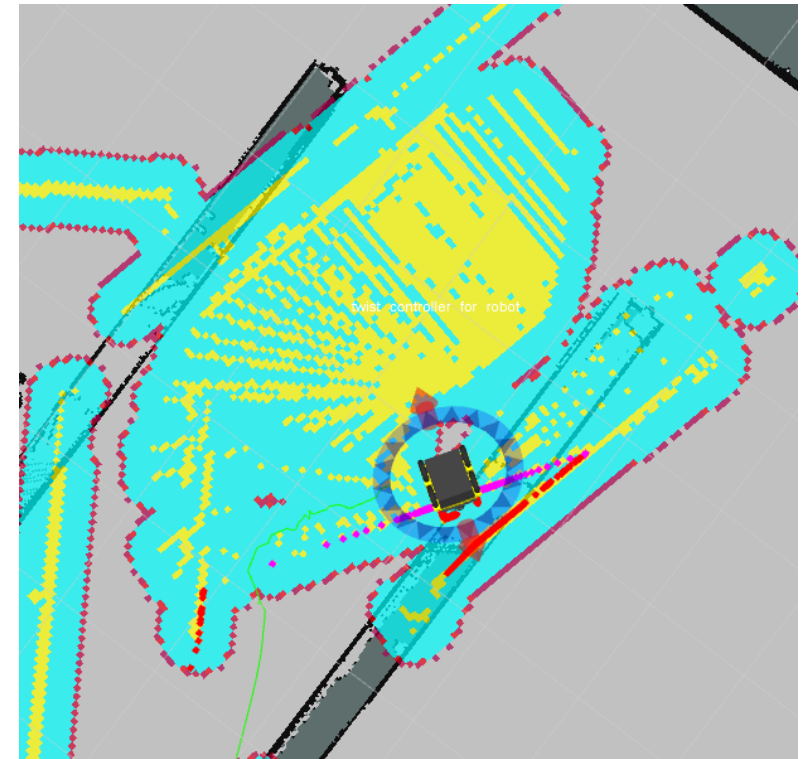
Challenges Faced

Setting up environment

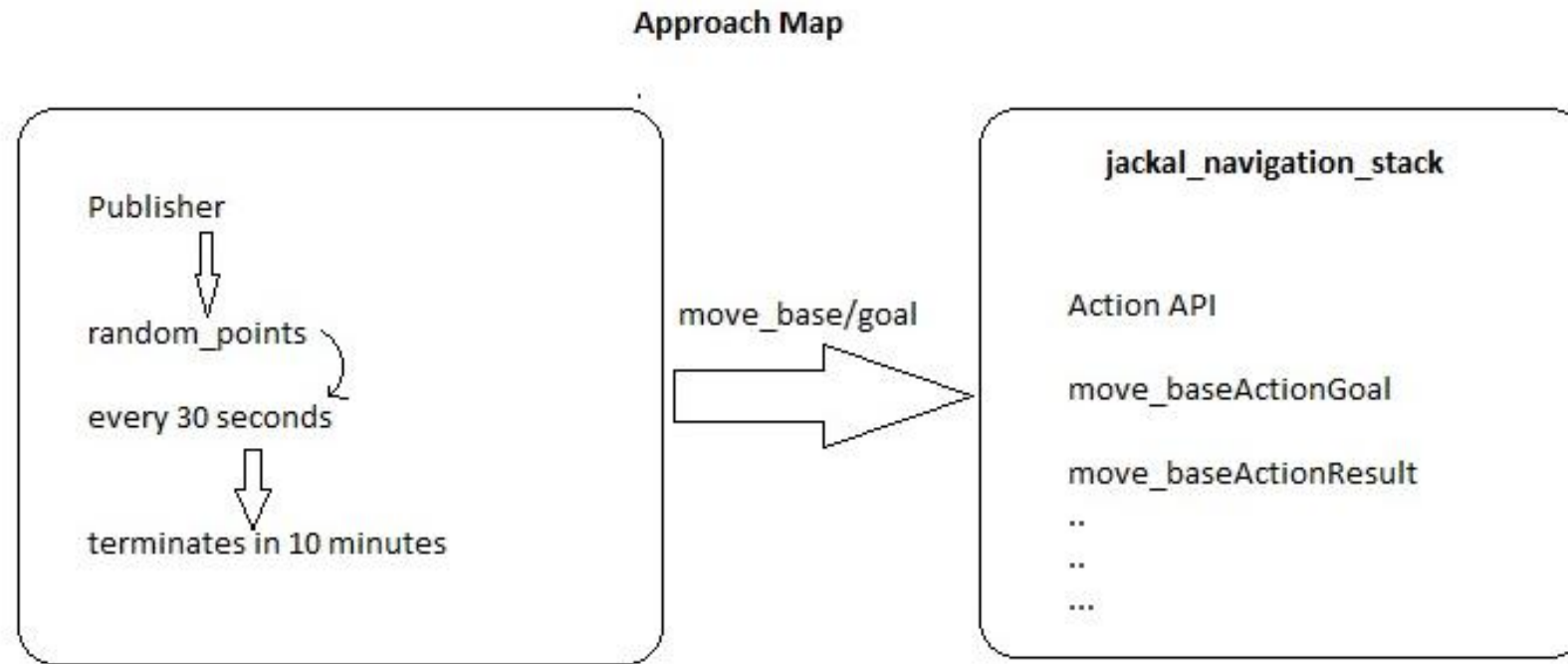
Dependencies : Build Errors

Nodes Publishing topics

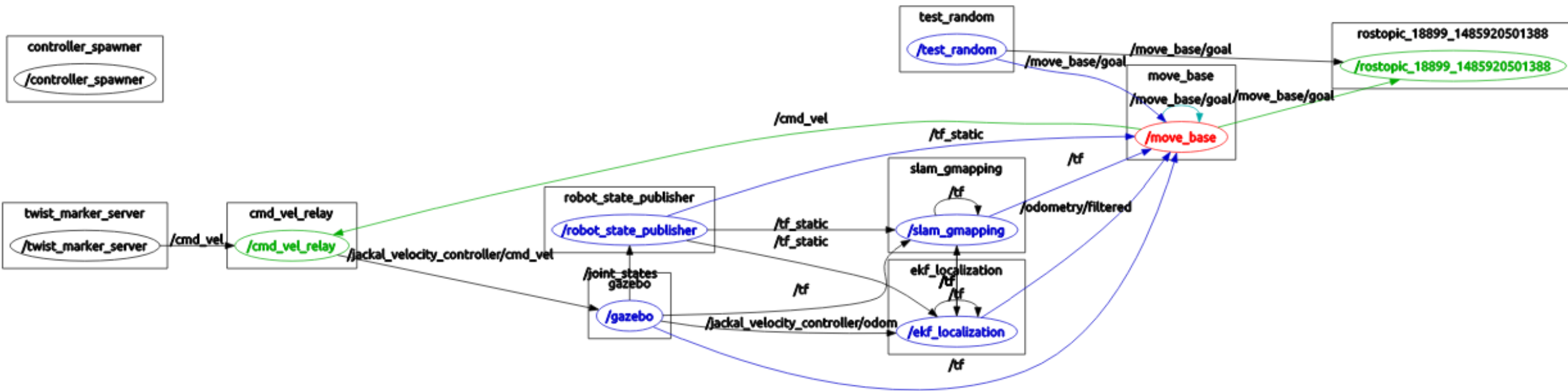
Maps generation



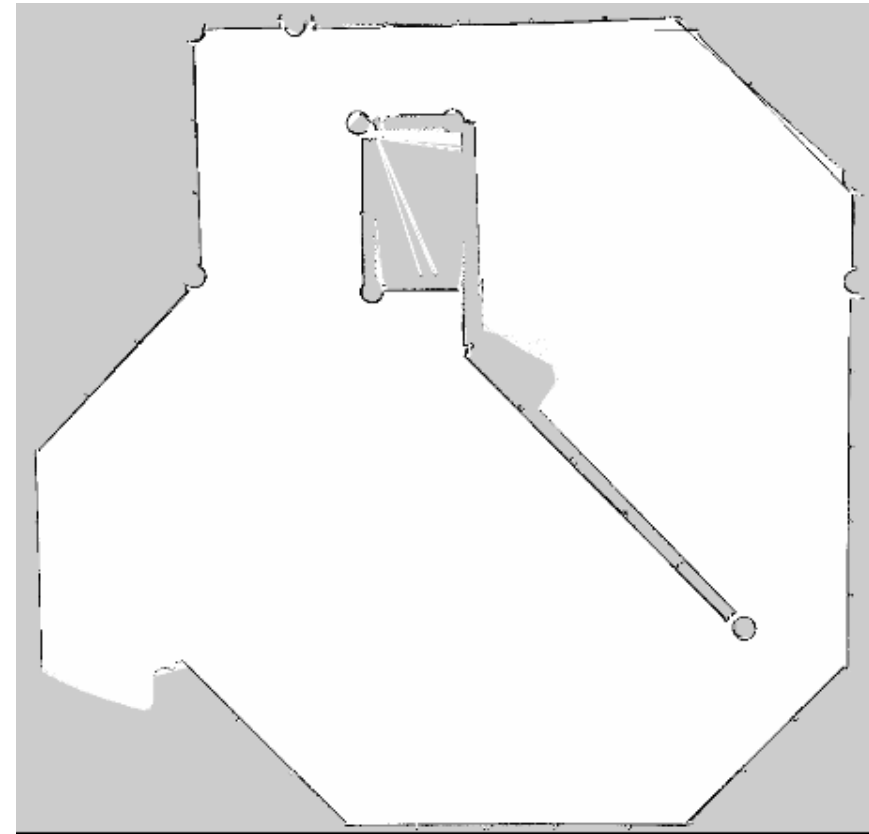
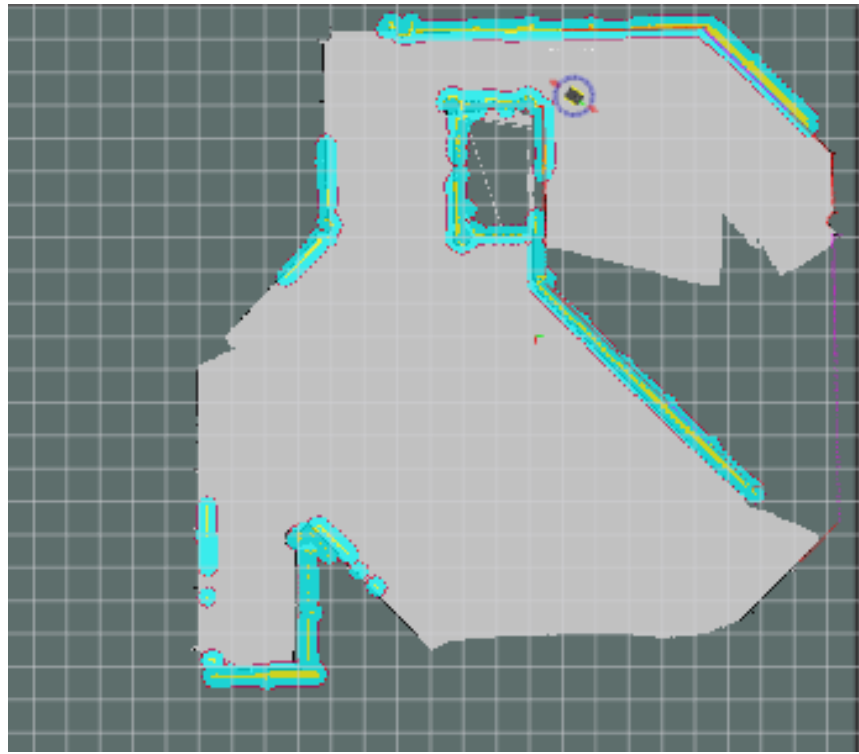
What we started working on



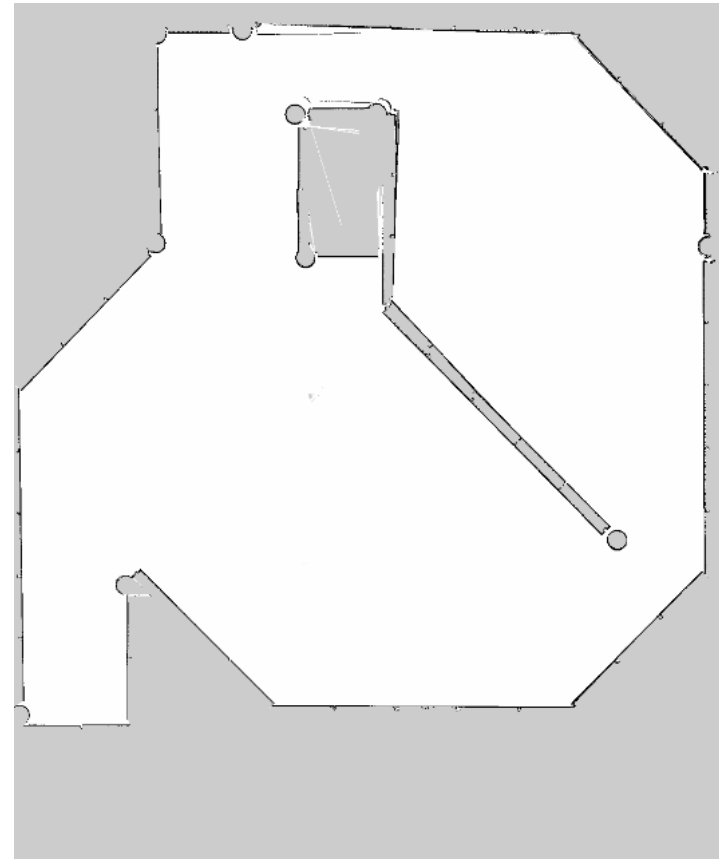
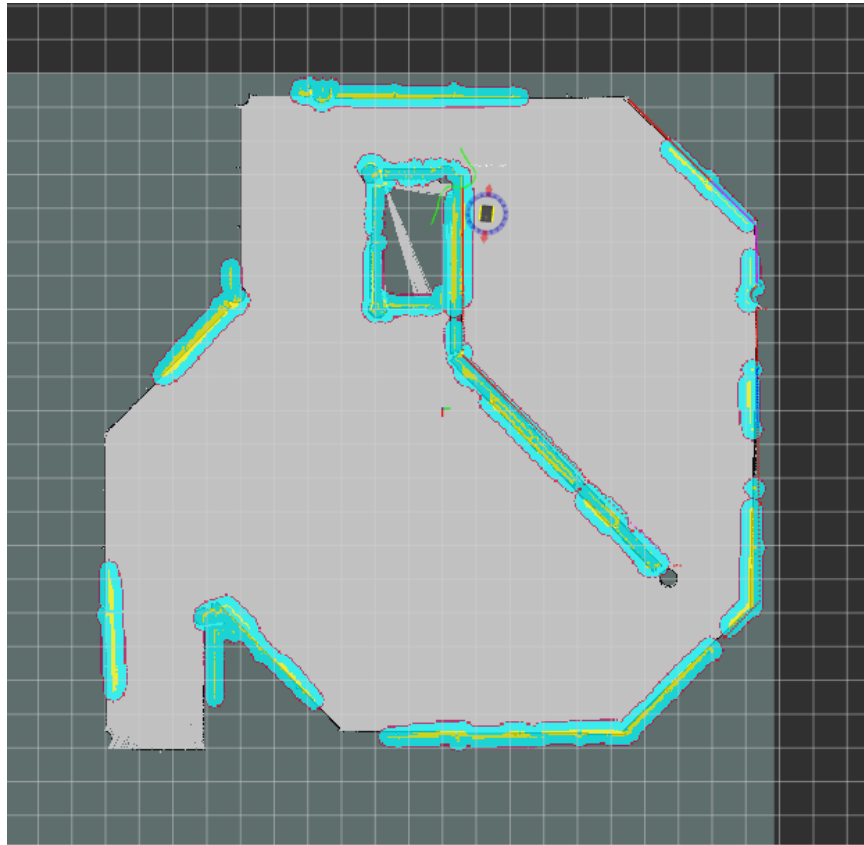
Layout (Cont.)



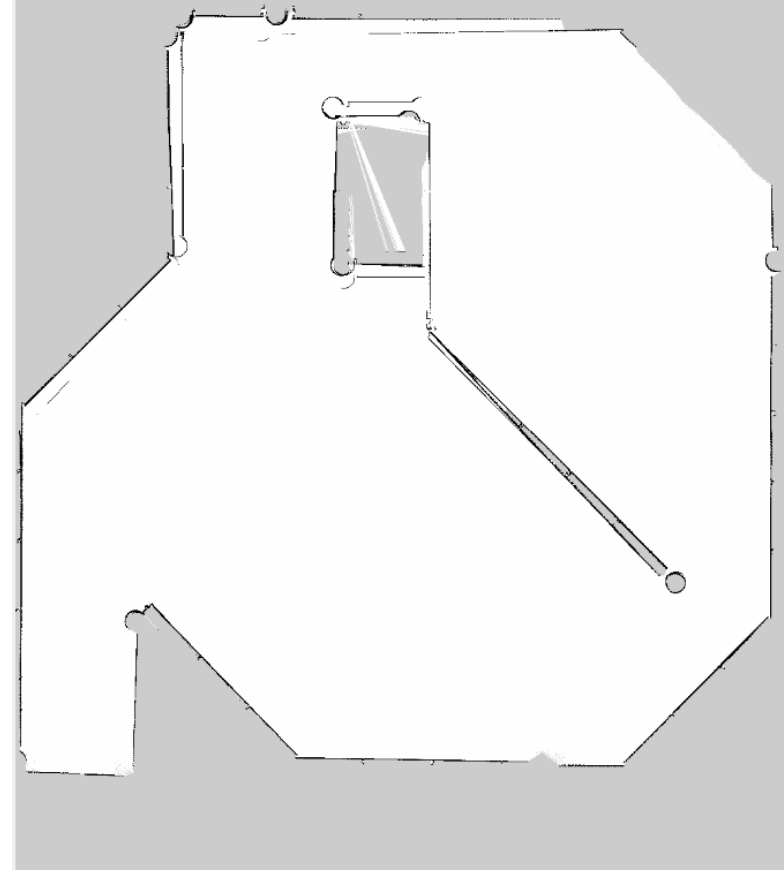
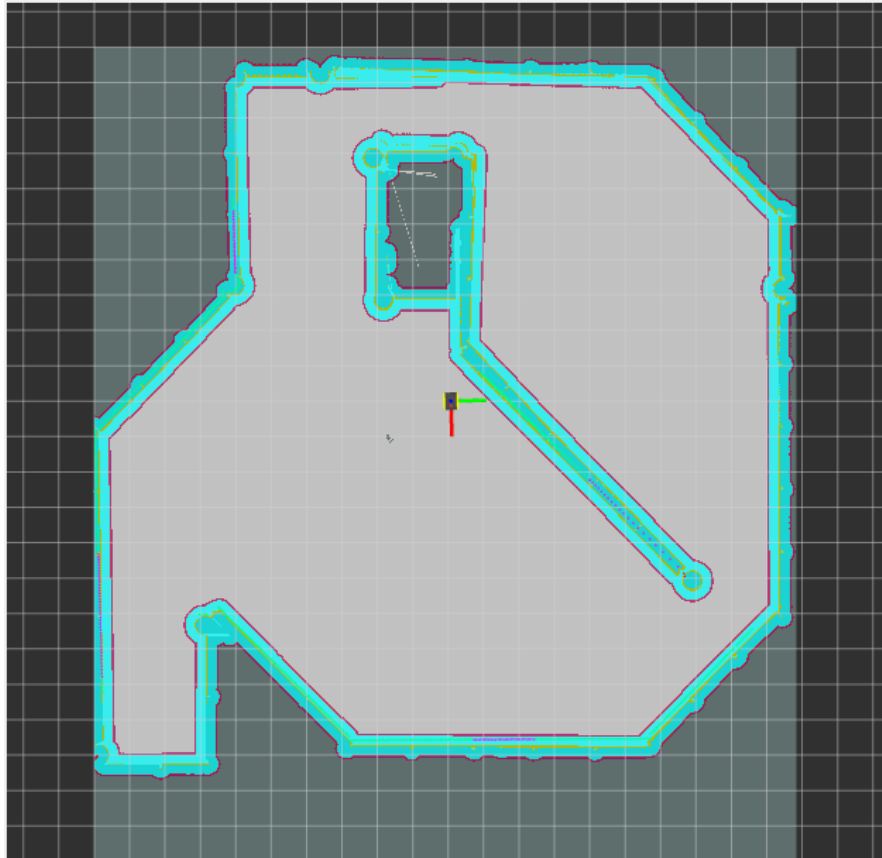
Map 1 : Bad



Map 2: Average



Map 3 : Good



Work-Distribution

Ashwin (Launch File & Integration) : Fix it-up Guy

Surya (scripts and ROS node) : Set it-up Guy

Deep (Wiki and helping out + Presentation) : Make it-up Guy

Thank You

Any Questions?