

Shamazon Warehouse Robot: UML Class Diagram

User Interface

+ delivery_floor: int
+ delivery_location :string

+ setDeliveryLocation(string): void
+ setDeliveryFloor(int): void

Navigation

+ nh: ROS::NodeHandle
- _goal_status: bool
- _pickup_goal: double[]
- _delivery_goal: double[]
- _move_base_client: move_base_msgs::MoveBaseAction
- _robot_pose: nav_msgs:: Odometry Message

+ poseCallback(const nav_msgs::Odometry::ConstPtr &msg): void
+ sendGoalsToActionServer(float, float, float): void
+ activateConveyor(void): bool
+ activaeRobotConveyor(void): bool
+ updateGlobalMap(int): void

Elevator

- _elevator_floor: int
- _elevator_status: bool

+ getElevatorFloor(void): int
+ moveElevator(int): bool