Seek And Capture forocoches

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Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

T::ActionNodeBase	
seek_and_capture_forocoches::FindPerson	8
seek_and_capture_forocoches::IsPerson	10
seek_and_capture_forocoches::Navigation	12
T::ConditionNode	
seek_and_capture_forocoches::ls_on_ground	ę
seek_and_capture_forocoches::LowBattery	11
lcpp::Node	
DebugNode	7
ek_and_capture_forocoches::PIDController	13

2 Hierarchical Index

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

DebugNode
seek_and_capture_forocoches::FindPerson
seek_and_capture_forocoches::ls_on_ground
seek_and_capture_forocoches::IsPerson
seek_and_capture_forocoches::LowBattery
seek_and_capture_forocoches::Navigation
seek and capture forocoches: PIDController

4 Class Index

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

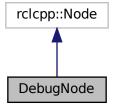
include/seek_and_capture_forocoches/DebugNode.hpp	
Node implementation for debugging purposes for the kobuki	5
include/seek_and_capture_forocoches/FindPerson.hpp??	•
include/seek_and_capture_forocoches/ ls_on_ground.hpp	•
include/seek_and_capture_forocoches/lsPerson.hpp	•
include/seek_and_capture_forocoches/LowBattery.hpp??	•
include/seek_and_capture_forocoches/Navigation.hpp	•
include/seek_and_capture_forocoches/PIDController.hpp	•
src/seek_and_capture_forocoches/DebugNode.cpp	
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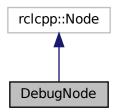
Class Documentation

4.1 DebugNode Class Reference

Inheritance diagram for DebugNode:



Collaboration diagram for DebugNode:



Public Types

- $\bullet \ \ typedef\ rclcpp::Publisher < std_msgs::msg::Int32 > ::SharedPtr\ \textbf{DebugPublisher}$
- typedef std_msgs::msg::Int32 **DebugMessage**

Static Public Attributes

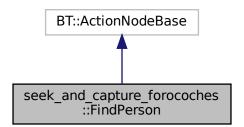
- static const char * TOPIC_NAME = "debug_topic"
- static const int OFF = 1
- static const int **PERSON DETECTED** = 2
- static const int **PERSON_FOUND** = 3
- static const int **OK** = 9
- static const int **READY** = 17
- static const int **ROTATING** = 29
- static const int MOVING REALLY SLOW = 30
- static const int MOVING_SLOW = 31
- static const int MOVING MODERATE = 32
- static const int MOVING_FAST = 33
- static const int MOVING_TOO_FAST = 34
- static const int MOVING_NO_CONTROL = 35
- static const int LOW_BATTERY = 40
- static const int NOT_ON_GROUND = 41
- static const int ERROR = 49

The documentation for this class was generated from the following files:

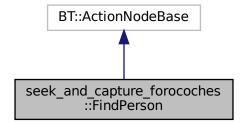
- include/seek_and_capture_forocoches/DebugNode.hpp
- src/seek_and_capture_forocoches/DebugNode.cpp

4.2 seek_and_capture_forocoches::FindPerson Class Reference

Inheritance diagram for seek_and_capture_forocoches::FindPerson:



Collaboration diagram for seek_and_capture_forocoches::FindPerson:



Public Member Functions

- FindPerson (const std::string &xml_tag_name, const BT::NodeConfiguration &conf)
- void halt ()
- BT::NodeStatus tick ()

Static Public Member Functions

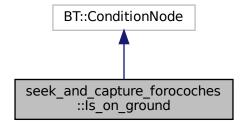
• static BT::PortsList providedPorts ()

The documentation for this class was generated from the following files:

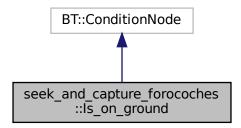
- include/seek_and_capture_forocoches/FindPerson.hpp
- src/seek_and_capture_forocoches/FindPerson.cpp

4.3 seek_and_capture_forocoches::ls_on_ground Class Reference

 $Inheritance\ diagram\ for\ seek_and_capture_forocoches:: Is_on_ground:$



Collaboration diagram for seek_and_capture_forocoches::ls_on_ground:



Public Member Functions

- Is_on_ground (const std::string &xml_tag_name, const BT::NodeConfiguration &conf)
- BT::NodeStatus tick ()
- void wheel_drop_callback (kobuki_ros_interfaces::msg::WheelDropEvent::UniquePtr msg)

Static Public Member Functions

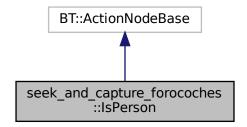
• static BT::PortsList providedPorts ()

The documentation for this class was generated from the following files:

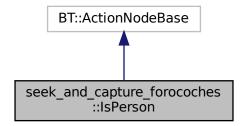
- include/seek_and_capture_forocoches/ls_on_ground.hpp
- src/seek_and_capture_forocoches/ls_on_ground.cpp

4.4 seek_and_capture_forocoches::IsPerson Class Reference

 $Inheritance\ diagram\ for\ seek_and_capture_forocoches:: Is Person:$



Collaboration diagram for seek_and_capture_forocoches::IsPerson:



Public Member Functions

- IsPerson (const std::string &xml_tag_name, const BT::NodeConfiguration &conf)
- void halt ()
- BT::NodeStatus tick ()
- void detection_callback (vision_msgs::msg::Detection3DArray::UniquePtr msg)
- bool tf_already_exists_in_position (tf2::Transform robot2newPerson, int persons_detected)

Static Public Member Functions

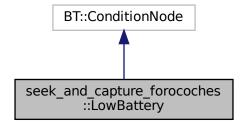
• static BT::PortsList providedPorts ()

The documentation for this class was generated from the following files:

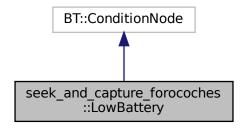
- · include/seek and capture forocoches/IsPerson.hpp
- src/seek_and_capture_forocoches/lsPerson.cpp

4.5 seek_and_capture_forocoches::LowBattery Class Reference

Inheritance diagram for seek_and_capture_forocoches::LowBattery:



Collaboration diagram for seek_and_capture_forocoches::LowBattery:



Public Member Functions

- LowBattery (const std::string &xml_tag_name, const BT::NodeConfiguration &conf)
- BT::NodeStatus tick ()
- void **battery_callback** (sensor_msgs::msg::BatteryState::UniquePtr msg)

Static Public Member Functions

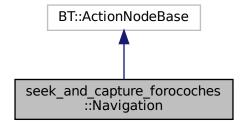
• static BT::PortsList providedPorts ()

The documentation for this class was generated from the following files:

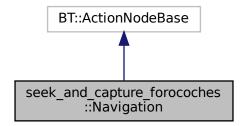
- include/seek_and_capture_forocoches/LowBattery.hpp
- src/seek_and_capture_forocoches/LowBattery.cpp

4.6 seek_and_capture_forocoches::Navigation Class Reference

 $Inheritance\ diagram\ for\ seek_and_capture_forocoches:: Navigation:$



Collaboration diagram for seek_and_capture_forocoches::Navigation:



Public Member Functions

- Navigation (const std::string &xml_tag_name, const BT::NodeConfiguration &conf)
- void halt ()
- BT::NodeStatus tick ()

Static Public Member Functions

• static BT::PortsList providedPorts ()

The documentation for this class was generated from the following files:

- include/seek_and_capture_forocoches/Navigation.hpp
- src/seek_and_capture_forocoches/Navigation.cpp

4.7 seek_and_capture_forocoches::PIDController Class Reference

Public Member Functions

- PIDController (double min_ref, double max_ref, double min_output, double max_output)
- void **set_pid** (double n_KP, double n_KI, double n_KD)
- double get_output (double new_reference)

The documentation for this class was generated from the following files:

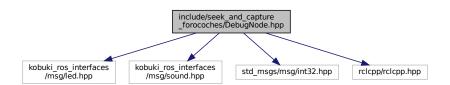
- include/seek_and_capture_forocoches/PIDController.hpp
- src/seek_and_capture_forocoches/PIDController.cpp

File Documentation

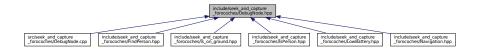
5.1 include/seek_and_capture_forocoches/DebugNode.hpp File Reference

Node implementation for debugging purposes for the kobuki.

```
#include "kobuki_ros_interfaces/msg/led.hpp"
#include "kobuki_ros_interfaces/msg/sound.hpp"
#include "std_msgs/msg/int32.hpp"
#include "rclcpp/rclcpp.hpp"
Include dependency graph for DebugNode.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

• class DebugNode

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5.1.1 Detailed Description

Node implementation for debugging purposes for the kobuki.

Author

Javier Izquierdo Hernandez (j.izquierdoh.2021@alumnos.urjc.es)

Note

Uses leds, sound and terminal functions for debugging

Version

1.0

Date

2023-02-17

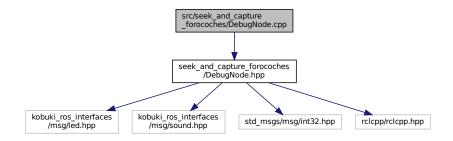
Copyright

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5.2 src/seek_and_capture_forocoches/DebugNode.cpp File Reference

Node implementation for debugging purposes for the kobuki.

#include "seek_and_capture_forocoches/DebugNode.hpp"
Include dependency graph for DebugNode.cpp:



5.2.1 Detailed Description

Node implementation for debugging purposes for the kobuki.

```
Author
```

```
Javier Izquierdo Hernandez ( j.izquierdoh.2021@alumnos.urjc.es)
```

Note

Uses leds, sound and terminal functions for debugging

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2023-02-17

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