Accommodations and Transportation

A block of rooms has been reserved at the:

Hilton Hill Country Resort & Spa 9800 Westover Hills Blvd. San Antonio, TX 78251 (210)-509-9800

To reserve your room at the special \$120 rate + \$30 resort fee, please use this link.

A shuttle will be provided to and from the hotel, departing each day at 8:15 AM.

A rental car is not required; airport to hotel <u>shuttles</u> are available and taxis are approximately \$40.

Registration

Please register here: http://rosindustrial.org/trainingregistration

The ROS-Industrial *Consortium* is a membership organization. Training is free to dues-paying members (limit three seats per Full member, two seats per Associate member, and one seat per Research member). Others may attend for a fee of \$2,199.

Class Prerequisites:

Basic understanding of programming (C++ preferred), Ubuntu Linux, and Linux command line. If Linux and C++ are new to you, complete <u>the prerequisites</u> of the online curriculum for background.

For more information, please contact: Paul Hvass <u>paul.hvass@swri.org</u> +1 (210) 522-5823



Basic Developers' Training

Program and Agenda

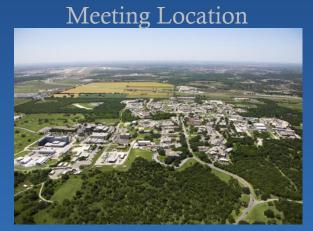
http://rosindustrial.org/events/2017

February 13 – 15 Southwest Research Institute[®] San Antonio, Texas

Join Us!

The Open Solution for Advanced Automation Software The ROS-Industrial Consortium Americas is hosting a ROS-Industrial Developers Training Class February 13-15, 2017 in San Antonio, Texas. The class will run three full days. Please bring a laptop to the class with the ROS-I training Virtual Machine preinstalled. This class is geared toward individuals with a C++ programming background who seek to learn to compose their own ROS nodes. Day 1 will focus on introductory ROS skills. Day 2 will examine motion planning using MoveIt! as well as the Descartes planner and perception concepts. Day 3 offers a lab programming exercise (with a choice of): Pick-and-Place Application, Descartes Application.

1 april 2



Southwest Research Institute

6220 Culebra Road San Antonio, Texas 78238 Building 68 <u>Google Map</u>

		Agenda	
	0815	Shuttle Departs the Hyatt Hill Country	
February 13 Classroom	0835-0900	Sign-in, Introductions, and Agenda	
	0900-1015	ROS Setup, Catkin, Installing Packages	5.
	1015-1030	Break	
	1030-1200	Creating Packages/Nodes, Topics, Messages	
	1200-1300	Lunch (Provided) – SwRI Overview Presentation	
	1300-1430	Services, Actions	5
	1430-1445	Break	
	1445-1700	Launch Files, Parameters	
	1720	Shuttle Departs for Dinner	
	1800-1945	Group Dinner at Acenar on the Riverwalk	
February 14 Classroom	0815	Shuttle Departs the Hyatt Hill Country	
	0835-0900	Recap and Agenda	
	0900-1015	URDF, Workcell XACRO	
	1015-1030	Break	
	1030-1200	TF, Build a MoveIt! Package	
	1200-1330	Lunch (Provided) – SwRI Lab Tours	
	1330-1500	Motion Planning Using Rviz, C++	
	1500-1515	Break	
	1515-1700	Descartes Path Planning, Intro to Perception	
	1720	Shuttle Departs for Dinner	
	1800-1945	Group Dinner at <u>Two Bros. BBQ</u>	
February 15 Lab	0815	Shuttle Departs the Hyatt Hill Country	
	0835-0900	Recap and Agenda	
	0900-1030	Building a Perception Pipeline, Recap	
	1030-1045	Break	
	1045-1200	Lab Introduction, Lab Time: (1) Pick and Place Application, (2) Descartes Application	
	1200-1245	Lunch (Provided)	
	1245-1530	Work on Lab Applications	
	1530-1600	Wrap-up, Surveys	
	1600	Shuttles Departs for Airport and Hotel	