

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 [shuttles](#) are available and taxis are approximately \$40.

Registration

Please register here:

<http://rosindustrial.org/training-registration>

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 [the prerequisites](#) of the online curriculum for background.

For more information, please contact:

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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 pre-installed. 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.

Agenda

February 13 Classroom	0815	Shuttle Departs the Hyatt Hill Country
	0835-0900	Sign-in, Introductions, and Agenda
	0900-1015	ROS Setup, Catkin, Installing Packages
	1015-1030	Break
	1030-1200	Creating Packages/Nodes, Topics, Messages
	1200-1300	Lunch (Provided) – SwRI Overview Presentation
	1300-1430	Services, Actions
	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 Two Bros. BBQ	
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

Meeting Location



Southwest Research Institute

6220 Culebra Road
San Antonio, Texas 78238
Building 68
[Google Map](#)