ROS-Industrial - Americas

Community Meeting – August 19, 2021
Agenda

• Activities in the Americas – Matt Robinson
• ROS Workbench – Levi Armstrong
• Improvements in Large Workspace Path Planning – Colin Lewis
• SPIFI: Spirit Fastener Inspection - ROS Case Study – Bharath Rao
• Updates to Robotic Calibration Tools – Dr. Chris Lewis
• Industrial Reconstruction with Open 3D – Tyler Marr
• Adjourn – Matt Robinson
What has happened...

- **ROS-I Americas Annual Meeting** – sharing on tech developments across members and the open source community
  - Demo Day – Mixed Reality and Path Planning, Realtime Path Planning, Robot Raconteur plug and play robot communication library, Robotic Composite Layup

- **ROS-I Asia-Pacific Workshop** – Updates around the region and globally – August 18, 2021

- **Continuous Evolution of ROS-I Training**
  - EU open source their training materials
  - Americas migrating to new cloud deployment vehicle, refactoring ROS 2/ROS 1 training

- **NIST grant** looking at standardizing how reinforcement learning is implemented for robotic assembly
ROS-Industrial Training

- Training has been presented as ROS 2 training
- Challenges with the practical execution of this training and building out the application examples
- Moving forward training will be presented as ROS 1 and ROS 2 training where ROS 1 tools are used where needed to set up your ROS 2 application
  - Bridge and Porting Practices will be permanent additions to basic training
  - Addresses the reality for those seeking to build functional capability on robots the need to jump back to ROS 1 for certain application build out
- For advanced students that are in Basic providing means for extended exercises to go further as others work on basic exercises
- Reviewing ability to support lab work, even in remote/virtual settings
- In person training events on hold till 2022
ROSCon and Scan-N-Plan Workshop

- ROSCon is slated for October 21-23
- ROS-I Workshop – Full Day 10/21
  - Add to ROSCon registration
  - Space limited
  - Program Available: https://rosindustrial.org/roscon-2021-rosindustrial-workshop
- ROS-Industrial will be exhibiting during the event
Upcoming Engagement Events

- ROS-Industrial Developers’ Meeting – Monthly, next meeting is October 12, 2021
  - https://rosindustrial.org/developers-meeting
- ROS-Industrial Training – October 12-14, 2021
  - Registration: https://rosindustrial.org/events/2021/2/23/ro...-training-americas-oct-2021
- ROSCon – October 21-23 – Registration is Open
  - https://roscon.ros.org/2021/
Thank You!