## Colony Scout - Task #1827

# Create ROS Node: AVR Bridge

10/13/2011 06:06 PM - Ben Wasserman

Status:	Fixed	Start date:	10/13/2011
Priority:	Low	Due date:	10/24/2011
Assignee:	Thomas Mullins	% Done:	100%
Category:	OS	Estimated time:	5.00 hours
Target version:			

## **Description**

Create the ROS node for the avr bridge. The git repo can be found: git clone ssh://roboclub.org/home/svn/scoutos. The node diagram can be found at <a href="https://www.roboticsclub.org/redmine/attachments/522/rosNodes2.pdf">https://www.roboticsclub.org/redmine/attachments/522/rosNodes2.pdf</a>.

#### History

#### #1 - 10/23/2011 02:42 AM - Priyanka Deo

- Due date set to 10/24/2011

## #2 - 10/24/2011 02:47 AM - Abraham Levkoy

- % Done changed from 0 to 50
- Estimated time set to 5.00 h

I think getting rosserial working on the ARM side is as simple as running the rosserial\_python ROS node. As such, there is no node creation for me to do on the ARM side. That said, I don't have access to a computer with ROS right now, so I can't observe this. It looks like some work will be necessary on the AVR side. rosserial acts as the main program for the AVR, and you create the C++ for the individual ROS nodes as functions in that program.

The only full rosserial micro-controller client is for Arduino, so we will need to port that to our AVR micro-controller. It looks like this is as simple as editing a header file and creating one class for low-level serial communication.

### #3 - 03/28/2012 08:52 PM - Abraham Levkoy

- Assignee changed from Abraham Levkoy to Thomas Mullins

### #4 - 03/28/2012 11:07 PM - Thomas Mullins

- % Done changed from 50 to 70

AVR side has been written but not yet tested. ARM side is indeed handled entirely by rosserial, so nothing needs to be done there.

### #5 - 04/03/2012 04:16 PM - Thomas Mullins

- Status changed from Assigned to Fixed
- % Done changed from 70 to 100

Tested, fixed, seems to work:)

Also, there's now a launch file for ARM side, under scout\_avr/launch.

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