

|  | 2013-8        |    |    |    | 2013-9 |    |    |    | 2013-10 |    |    |    | 2013-11 |    |    |    | 2013-12 |    |    |    | 2014-1 |   |   |   |
|--|---------------|----|----|----|--------|----|----|----|---------|----|----|----|---------|----|----|----|---------|----|----|----|--------|---|---|---|
|  | 32            | 33 | 34 | 35 | 36     | 37 | 38 | 39 | 40      | 41 | 42 | 43 | 44      | 45 | 46 | 47 | 48      | 49 | 50 | 51 | 52     | 1 | 2 | 3 |
| <b>Colony</b>                                    | <b>Colony</b> |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Battery Level Indicator                          |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Improve library error codes                      |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Better sanity check for invalid BOM type         |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| XBee/Wireless Initialization                     |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| get all the library inti's and functions (...)   |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Xbee Documentation                               |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| xbee baud rates                                  |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Wireless - core send, ack functions              |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Wireless - xbee.c                                |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| xbee id  |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| investigate new AVR simulator?                   |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Conclusion on filter design                      | Assigned 0%   |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Figure out rangefinders group                    | Assigned 0%   |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Complete SURG form                               | Assigned 0%   |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Check/Order robot battery clips                  | Assigned 50%  |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Line Follower Collimator                         |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Redo robot pants                                 |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Get Colony videos onto VideoTron. Embed in (...) |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Clean up repository branches                     |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Add Line Following to Library                    |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Profile different mapping surfaces               |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Make Hunter-Prey Ref More Verbose                |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Clean up Colony-New and prepare for next (...)   |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Implement Intersection Behavior                  |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| wl_basic_do_default(int *length) doesn't (...)   |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Schedule Fleet Maintenance Day                   |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |
| Discuss and Contact about Extra Colony III (...) |               |    |    |    |        |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |        |   |   |   |

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| <p><b>Colony - Hardware</b><br/> Design Dragonfly Replacement Board<br/> Investigate how to use the JTAG ICE</p> <p><b>Colony - Library</b><br/> Make sure all robots program the correct (...)</p> <p><b>Colony - Reliability</b><br/> Automatically update robot status page (...)</p> <p><b>Colony Scout</b><br/> Colony Environment<br/> Software Architecture<br/> Reflow Oven Temperature Regulation<br/> Update Boards on Eagle<br/> Research PCB Assembly Costing<br/> Website Work Log<br/> Video for Scout Intro<br/> Create ROS Node: Buttons<br/> Create ROS Node: Timer<br/> Create ROS Node: IMU<br/> Create ROS Node: Accessory<br/> Create ROS Node: Encoders<br/> Create ROS Node: Wireless<br/> Create ROS Node: USB Serial<br/> Create ROS Node: Cliffsensors<br/> Create ROS Node: BOM<br/> Create ROS Node: Analog<br/> BOM Interference Testing<br/> BOM Driver Code<br/> Sonar Wiring<br/> Sonar Position Tracking<br/> Send Sonar Readings to ARM<br/> Automate Stepping and Sonar Reading<br/> Sonar on ARM<br/> Make ARM command Sonar on AVR<br/> Read IMU values and send to ARM</p> | <p><b>Colony Scout</b></p> <p><b>Assigned 100%</b><br/> <b>Assigned 100%</b><br/> <b>Assigned 0%</b><br/> <b>Assigned 100%</b><br/> <b>Assigned 100%</b><br/> <b>Assigned 0%</b><br/> <b>Assigned 80%</b><br/> <b>Assigned 100%</b><br/> <b>Assigned 90%</b><br/> <b>Assigned 0%</b><br/> <b>Assigned 0%</b><br/> <b>Assigned 0%</b><br/> <b>Assigned 0%</b></p> <p><b>Assigned 0%</b></p> |
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|---|--------------|
| Pose Estimation                             | Assigned 0%  |
| Motor & Encoder Wiring                      |              |
| Control Motors (ARM)                        | Assigned 10% |
| Track Encoders                              |              |
| Charging Base                               |              |
| Print and Test Scoutfly                     |              |
| Create Scout Chassis                        |              |
| Make wiring kits for Scout                  |              |
| IMU on ARM                                  | Assigned 0%  |
| ROSSERIAL on ARM                            | Assigned 0%  |
| CliffSensor on ARM                          | Assigned 0%  |
| Create Transmitting Protocol                | Assigned 0%  |
| Wireless on ARM                             | Assigned 10% |
| Cliff Detection                             | Assigned 0%  |
| Buttons on ARM                              | Assigned 0%  |
| USB Serial on ARM                           | Assigned 0%  |
| Control Headlights                          |              |
| Power Up Rest of Scoutfly                   |              |
| Get Old Boards and Funding Info             |              |
| Test AVR on ARM                             | Assigned 0%  |
| Get Sonar Stepping and Reading              | Assigned 0%  |
| "Automated" Turning                         | Assigned 0%  |
| Add Fuel Guage and Protection circuit (...) |              |
| BOM returns values even when IR LED (...)   |              |
| File Error Service call                     |              |
| Colony Scout - 1.0                          |              |
| BOM Send/Receive Functions                  |              |
| Assembly Instructions                       |              |
| Fix Encoder pinout on breakfly              |              |
| Colony Scout - 1.2                          |              |
| NanoRK Wireless Library                     |              |
| Look @ Robostix AVR<->ARM Comms (...)       |              |
| Electronics Purchasing, OCT-08              | Assigned 0%  |
| Colony Scout - Development                  |              |

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| <p><b>System Wiring</b></p> <ul style="list-style-type: none"> <li>Look into accelerometer speed</li> <li>Email Red W</li> <li>Create roboclub demo</li> <li>Audio Command &amp; Output Accessory</li> <li>Design SmartFly Smart Accessory (...)</li> <li>Mechanical Work Log</li> <li>Check speaker magnet interference (...)</li> </ul> | <p><b>Assigned 0%</b></p> <p><b>Assigned 50%</b></p>   |
| <p><b>HyLo</b></p> <ul style="list-style-type: none"> <li>type proposed proposal</li> <li>Meeting</li> </ul>  | <p><b>HyLo</b></p> <p><b>Assigned 0%</b></p>   |
| <p><b>Mechanical Logic Gates</b></p> <ul style="list-style-type: none"> <li>Update - website</li> <li>You Tube + Display Case</li> <li>Website - host on roboclub</li> <li>Look into getting copywrite</li> </ul>   | <p><b>Mechanical Logic Gates</b></p> <p><b>Assigned 0%</b></p> <p><b>Assigned 0%</b></p> <p><b>Assigned 0%</b></p> <p><b>Assigned 0%</b></p> |
| <p><b>Wishlist</b></p> <ul style="list-style-type: none"> <li>Sell T-shirts on website</li> <li>Arbor Press</li> <li>Horizontal Band Saw</li> <li>Compressed Air System</li> </ul>  |  |
| <p><b>Quadrotor</b></p> <ul style="list-style-type: none"> <li>Make Wishlist of Parts</li> <li>Fix the Quadrotor</li> <li>Point Cloud Display</li> <li>Design aluminum frame for Quad1</li> <li>Make private repository</li> <li>Email Harrison to Order Parts</li> <li>USB to micro USB cable</li> </ul>                                 | <p><b>Quadrotor</b></p> <p><b>Assigned 0%</b></p>  |
| <p><b>RoboBuggy</b></p> <ul style="list-style-type: none"> <li>Write a SURG Grant</li> </ul>  | <p><b>RoboBuggy</b></p> <p><b>Assigned 40%</b></p>   |
| <p><b>RobOrchestra</b></p> <ul style="list-style-type: none"> <li>Model Solenoids for brassbot in Solidworks</li> <li>Get Pianobot modelled with the piano</li> </ul>   | <p><b>Assigned 0%</b></p> <p><b>Assigned 0%</b></p>  |

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| <p>Parts List (pianobot) (someone work on this? (...))</p> <p>Algorithm for Pianobot?</p> <p>Tooltron</p> <p>Write tutorial about network programming</p> <p>Tooltron - 1.0</p> <ul style="list-style-type: none"> <li>script for network programming</li> <li>notifications of tool boot packets in (...)</li> <li>Put up a warning sign for Tooltron swiping (...)</li> <li>Document the Network Bootloader</li> <li>Document the States of the toolbox/cardbox</li> <li>Server dies when internet is out</li> <li>update server docs</li> </ul> <p>Tooltron - 1.1</p> <ul style="list-style-type: none"> <li>timeouts not working correctly</li> <li>remove server hacks</li> <li>organize repo</li> <li>Document new Error codes on Cardbox</li> <li>order more boards and replace drill-press (...)</li> </ul> <p>Tooltron - 2.0</p> <ul style="list-style-type: none"> <li>Keypad row 3 (7,8,9,C) does not work</li> <li>MySQL Stored Procedures</li> <li>Tooltron status indicator</li> </ul> <p>Underwater Swarm Bots</p> <ul style="list-style-type: none"> <li>FTDI cable</li> </ul> <p>WCTU</p> <ul style="list-style-type: none"> <li>WCTU - WCTU Version 1.0</li> <li>Create v1.0 JS Client Revision 1</li> </ul> | <p>Underwater Swarm Bots</p> <ul style="list-style-type: none"> <li>Assigned 0%</li> </ul> <p>WCTU</p> <ul style="list-style-type: none"> <li>WCTU -WCTU Version 1.0 50%</li> <li>Assigned 0%</li> </ul> |
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