1 April 26, 2013

Team 19 Phase 3 of Inspection

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3 4	Laboratory # 8: Inspection
5	Morgan, Laura
6	Miaw, Jireh
7	Hauser, Steven
8	Dworak, Catherine
9	Bertoglio, David
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12	Work Product
13	Documentation of Phase 3 of Inspection of Group 20's source code
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15	Document Revision Information
16	April 26, 2013 – Document created, Phase 3 inspection documented
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Approval Sheet All group members whose names are listed below approve of the document and contributed fairly. **Member Names** Morgan, Laura Miaw, Jireh Hauser, Steven **Dworak, Catherine** Bertoglio, David **Pledge** On my honor, as a student, I have neither given nor received unauthorized aid on this assignment. Names Morgan, Laura Miaw, Jireh Hauser, Steven **Dworak, Catherine** Bertoglio, David

94 95 96 97	Phase 3 – Functional Correctness Between Wednesday April 24 and Friday April 26 Inspector – Laura, David, Steven, Jireh, Catherine
98	Checklists Used
99 100 101 102 103 104 105 106	Phase 3 Functional Correctness (single inspector). • Methods • All methods return what they are supposed to return • All methods execute what they are supposed to execute • Variables • All variables exist for the purpose for which they are named
107 108 109 110 111 112	 All specified functionality is implemented Implements communication protocol fully sends acks, command and error message to the robot receives and processes properly formed messages Handles checksum generation and validation correctly according to communications protocol.
113 114	Results of Inspection
115 116 117 118 119	 Switch statements Switch statements used rather than if-else-if blocks BaseStation lines 72-92: If-else-if block should be switch-case block GUI lines 468-700: if-else-if blocks should be switch-case blocks
120 121 122 123 124 125 126 127 128 129 130	 Variables All variables initialized prior to use GUI lines 246 & 247: txtConnectionButtonOn and txtConnectionButtonOff background set before textFields initialized (lines 257 and 265) GUI lines 525, 543, 560, 577: wIsPressed, aIsPressed, sIsPressed, dIsPressed used in conditionals before initialized – consider initializing them all to false in initialize() GUI line 652: Boolean isSent never initialized GUI line 470: int speed used before initialized on line 475 All variables declared at top of function
131 132 133 134	 BaseStation line 71: String message declared in middle of function BaseStation line 216: byte[] checksum should be declared at top of function

135	 GUI line 643: Boolean valueHolder declared twice (also declared
136	on line 25)
137	 All loop variables initialized just before loop
138	 BaseStation line 30: Initialize readFlag on line 62 (just before
139	loop) rather than at declaration
140	 No variables initialized that are not used
141	 GUI line 28: private static GUI window never used
142	Observations
143	Phase 3 of the inspection has been completed. Defects sent to Team 20 on
144	4/26/2013.
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146	Note: Auto-generated GUI code was not inspected as thoroughly, as directed by
147	Instructor.
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