1 March 24, 2013

Team 19 Design Document Verification

Laboratory # 5: Design Morgan, Laura Miaw, Jireh Hauser, Steven Dworak, Catherine Bertoglio, David **Work Product Verification of the Design Document Document Revision Information** 3/24/13 Document created

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

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98 99 100 101	Time and Duration 10:15 pm 3/24/2013
102 103	Attendees Catherine Dworak
100	Gatherine 2 Words
104 105	Roles Catherine Dworak – use the checklist to verify the design document
106 107	Check Lists Used
108 109	The following check list was used to inspect the document:
110	Are the following properties and qualities included?
111	 comprehensive document structure
112	o face page - yes
113	o approval - yes
114	o contents - yes
115	 high-level system architecture overview
116	o in natural language - yes
117	o liberal use of graphics – graphics included in following sections
118	UML class diagram notation
119	 all classes are identified, included subclasses - yes
120	o relationships between classes - yes
121	o links - yes
122	o fields and field types for classes - yes
123	UML sequence diagram
124	o objects - yes
125	o function calls - yes
126	UML state machine
127	o start state - yes
128	o states - yes
129	o transitions
130	action – no actions necessary
131	• event - yes
132	guard conditions - yes
133	 concurrent structure of the design
134	o in graphical notation – yes
135	class interfaces
136	o written in Java - yes
100	o within java - yes

137	 comments that document design decision that each class is hiding -
138	yes
139	 functions included
140	comment explaining purpose of function - yes
141	 comment explaining what each parameter is for - yes
142	o fields included - yes
143	o private data member
144	constructors - yes
145	 destructors – not needed in java
146	 getter methods – may be necessary to add more later
147	 setter methods – may be necessary to add more later
148	communication
149	 are design decisions associated with communications protocol
150	suitably hidden - yes
151	 was the protocol design included - yes
152	natural language text
153	o necessary - yes
154	o concise - yes
155	Defects Located
156	
157	Defects were located in the UML class diagram, the UML Sequence Diagram, and the
158	class interfaces
159	Corrective Action Required
160	
161	Changes to be made in each of the classes and the interface:
162163	Driver
164	 in setSpeed parameter speed must be changed to newSpeed
165	 in read parameter sensNum must be changed to sensorNumber
166	
167	Activator
168	 NXTComm field type must be changed to NXTConnection
169	Marana II. a II. a
170 171	MessageHandler
171	 verifyCheckSum must be made private and changed to verifyChecksum getCheckSum must be made private and changed to getChecksum
173	 add method private method Boolean isNumeric(String number)
174	and medica private medica bootean invaling religion ing number
175	All field types of arrays must be changed to ArrayLists
176	

177 Results of Follow Up
178
179 All changes that were identified in the above section (Corrective Action Required) have bee corrected.
181