

First Report Mark Scheme

Team: 212

Date: 11/11/2022

Marker: Nathan Crilly

Presentation Area	Comments	
Team Planning/Organisation <ul style="list-style-type: none"> - Team structure/management - Gantt Chart - Reasonable Expectations 	Very clear Gantt chart with good indication of progress. Consider the critical dependencies between tasks though.	6/6
Overall Concept <ul style="list-style-type: none"> - Exploration of concepts - Concept selection - Reasonable Approach 	Good description of the overall plan for team communication and coordination, and a nice high-level overview of progress so far.	6/6
Mechanical <ul style="list-style-type: none"> - Consideration of materials - Consideration of fabrication methods - Reasonable Size - Consideration of sensors/motor placement 	Useful picture of the cardboard prototype. Clear description of why you want to progress to the next prototype.	5/6
Electrical <ul style="list-style-type: none"> - Sensor selection - Appropriate choice of sensors - Software/Electrical discussion - Interface to software 	<p>Useful systems overview and path labelling diagrams, neat schematics. What exactly are you dimensioning from in the layout drawing of the IR sensors? Component edges? Centres?</p> <p>Good consideration of sensor errors and required corrections.</p>	5/6
Software <ul style="list-style-type: none"> - Interface to electronics considered - Overall strategy/structure - Appropriate algorithms chosen - Implementation realistic 	A diagram of overall functions and their interaction would be useful, but the description of the two main functions is really clear. The detailed attention to error handling and redundancy is good. Note that redundancy can increase complexity, even if it improves system reliability.	5/6
Total Mark	A nicely written and really well-illustrated report. Note that reports should be dated and include page numbers and section numbers	27/30

	(well done on the figure numbers though). Remember this for your final report.	
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