

Final Report Grading Rubric

Demo:  
VERSION A: MUSIC

	<b>Did Not Demonstrate</b> [0 Points]	<b>Attempted Demonstration</b> [5 Points]	<b>Demonstrated</b> [10 Points]
Sound Collection	Mic/Front end circuit did not work	Mic/Front end circuit worked sometimes	Mic/Front end circuit works as expected
Genre Recognition	SIXT33N does not differentiate between genres	SIXT33N sometimes differentiates between genres (~50%)	SIXT33N differentiates between genres (>90%)
Controls I	SIXT33N does not drive straight when expected	SIXT33N sometimes drives straight as expected	SIXT33N responds as expected: (1) Turns on the first cycle (2) <b>Drives straight on subsequent cycles</b>
Controls II	SIXT33N does not turn when expected	SIXT33N sometimes turns when expected	SIXT33N responds as expected: (1) <b>Turns on the first cycle</b> (2) Drives straight on subsequent cycles
General	Little effort was put into SIXT33N	Some effort was put into SIXT33N	Significant effort was put into SIXT33N
<b>TOTAL</b>			<b>50 POINTS</b>

VERSION B: SPEECH

	<b>Did Not Demonstrate</b> [0 Points]	<b>Attempted Demonstration</b> [5 Points]	<b>Demonstrated</b> [10 Points]
Sound Collection	Mic/Front end circuit did not work	Mic/Front end circuit worked sometimes	Mic/Front end circuit works as expected
Word Recognition	SIXT33N does not differentiate between words	SIXT33N sometimes differentiates between words (~50%)	SIXT33N differentiates between words (>90%)
Controls I	SIXT33N does not drive straight when expected	SIXT33N sometimes responds drives straight when expected	SIXT33N responds as expected: (1) <b>Go straight fast</b> (2) <b>Go straight slow</b> (3) Turn left (4) Turn right
Controls II	SIXT33N does not turn when expected	SIXT33N sometimes turns when expected	SIXT33N responds as expected: (1) Go straight fast (2) Go straight slow (3) <b>Turn left</b> (4) <b>Turn right</b>
General	Little effort was put into SIXT33N	Some effort was put into SIXT33N	Significant effort was put into SIXT33N
<b>TOTAL</b>			<b>50 POINTS</b>

Report:

	<b>Did Not Included</b> [0 Points]	<b>Some Discussion</b> [1 Points]	<b>Discussed</b> [2 Points]
Front End Circuit	No discussion of circuit	Some discussion of circuit	Front end circuit discussed: - Give the final schematic - Explain each stage of the circuit and why it is needed - Give expressions for the gain and frequency response of each stage
Front End Circuit Schematic	Did not include Schematic	Schematic is included, but unclear	Schematic is included and clearly labeled
PCA	No discussion of PCA	Some discussion of PCA	PCA Discussed: - Discuss which commands (words or genres) worked well and which did not. - Explain any processing you implemented to make the PCA or classification more robust
Controls – open loop	No discussion of open loop	Some discussion of open loop	Open Loop Discussed: - Open loop model
Controls – closed loop	No discussion of closed loop	Some discussion of closed loop	Closed Loop Discussed: - Closed loop model - Explain why closed loop is necessary
Controls – controller values	No discussion of controller values	Some discussion of controller values	Controller values discussed: - Explanation for chosen k values
Controls – turning	No discussion of turning	Some discussion of turning	Turning discussed: - Explain how you modified your control scheme to allow for turns
Closed Loop Block Diagram	Did not include block diagram	Block diagram is included, but unclear	Block diagram is included and clearly labeled
General – What you learned	Did not discuss what was learned	Some discussion of what was learned	Discussed what was learned
Effort	Little effort was put into report	Some effort was put into report	Sufficient effort was put into report
<b>TOTAL</b>			<b>20 POINTS</b>