Lab 3a: Line Following Grading Sheet

Team:	Final score:
Members:	
-	

First try:

Grading Standard	Points	Out of
Robot seems to follow the line		20
Reached half-way check point (via checkpoint 1)		40
Reached finish (via checkpoint 2) in under 45 seconds		40
In over 45 seconds : 30 points		40
Total		100

Second try:

Grading Standard	Points	Out of
Robot seems to follow the line		20
Reached half-way check point (via checkpoint 1)		40
Reached finish (via checkpoint 2) in under 45 seconds		40
In over 45 seconds : 30 points		40
Total		100

Third try:

Grading Standard	Points	Out of
Robot seems to follow the line		20
Reached half-way check point (via checkpoint 1)		40
Reached finish (via checkpoint 2) in under 45 seconds		40
In over 45 seconds : 30 points		40
Total		100

Lab 3b: Dead Reckoning Grading Sheet

Team:					Final s	core:	
Members:							
First try:							
Velocity for th	e first 5 seconds	Velocity	for the next 5 s	econds	Velocity	for the last 5 secon	nds
Left:	Right:	Left:	Right:		Left:	Right:	
Reported Position	on in cm (<i>r</i>)			Reported	d Orientatio	on in degrees (r)	
Measured Posit	ion in cm (<i>m</i>)			Measure	d Orientati	on in degrees (m)	
Error in position	estimate in	•		Error in o	orientation	estimate in	

degrees (|r-m|)

Grading Standard	Points	Out of
Error in position estimate ≤ 5cm		70
Error in position estimate > 5cm : -10 points/cm		70
Error in orientation estimate ≤ 10 degrees		30
Error in orientation estimate > 10 degrees: -5 points/degree		30
Total		100

Second try:

cm (||r-m||)

Velocity for the first 5 seconds			Velocity for the next 5 seconds Vel				ocity for the last 5 seconds			ds	
Left:	Right:		Left:		Right:		Left:		Righ	nt:	
Reported Positio	n in cm (<i>r</i>)					Reported	d Orier	ntation in de	gree	s (<i>r</i>)	
Measured Position	on in cm (<i>m</i>)					Measure	d Orie	ntation in d	egree	es (m)	
Error in position	estimate in					Error in o	orienta	tion estima	te in		
cm $(r-m)$						degrees	(r-	m)			
	Grading Standard						Points		Out	of	
Error in position	estimate ≤ 5c	m								70	
Error in position estimate > 5cm : -10 points/cm									70		
Error in orientat	ion estimate s	≦ 10 d	degre	ees						30	
Error in orientation estimate > 10 degrees : -5 points/degree								30			
Easier velocity re	Easier velocity request						-10				
	Total								100)	

Third try:

Velocity for the first 5 seconds			Velocity for the next 5 seconds Vel				Velo	ocity for the last 5 seconds			
Left:	Right:		Left:	!	Right:	Right:		Left: Ri		Right:	
Reported Positio	n in cm (<i>r</i>)					Reported	d Orier	itation in de	egrees (r)		
Measured Position	on in cm (<i>m</i>)					Measure	d Orie	ntation in d	egrees (m)		
Error in position	estimate in					Error in o	orienta	tion estima	te in		
cm $(r-m)$						degrees	(r-i	n)			
	Grading Standard							Points	Out	of	
Error in position	estimate ≤ 5c	m							70		
Error in position estimate > 5cm : -10 points				points/cm)				70		
Error in orientat	ion estimate s	≤ 10 c	degre	ees					30		
Error in orientation estimate > 10 degrees : -5 points/degree							30				
Easier velocity request						-20)				
	Total								100)	