



Testing & Fault-Finding Inspection Checklist

Date:	Country:		
Competitors' Names:			
Expert:	Expert:	Expert:	
Place an "X" in the correct action that should be done	t box if the task passed of to fix the failure (witho	nctional) depending on how the task type category. or failed. When a task fails, write the corrective out actually fixing it). e in the measurement box and indicate the unit.	
Electrical Testing	J		
Task:	Does the R	obot Turn On?	
Task Type:	Visual Only:	Functional:	
Passed:	Yes:	No:	
Corrective action: (if failed)			
Task:	Battery Connect	ed to Control Panel?	
Task Type:	Visual Only:	Functional:	
Passed:	Yes:	No:	
Corrective action: (if failed)			
Task:	Control Panel now	er connected to Titan?	
Task Type:	Visual Only:	Functional:	
Passed:	Yes:	No:	
Corrective action: (if failed)			
Task:	Δ \/\/ir	es Labeled?	
Task Type:	Visual Only:	Functional:	
Passed:	Yes:	No:	
Corrective action: (if failed)		•	



Task:	Battery Voltage is >12VDC?	
Passed:	Yes:	No:
Task Type:	Visual Only:	Functional:
Measurement:		
Corrective action: (if failed)		

Task:	Battery Fuse is good?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Titan Fuses are good?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Emergency Stop is Wired?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	VMX LEDs S1, S2, 3.3V are on?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	VMX IO Voltage is 5VDC?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Measurement:		
Corrective action: (if failed)		



Task:	Wires are neatly routed and no damage?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Mechanical

Task:	No loose screws or nuts?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Wheels, Track, or Rollers show no damage?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Damage to channel or brackets?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Damage to 3D printed parts?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Damage to polycarbonate parts?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		



Task:	Nothing hanging off chassis?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Sensors

Task:	Ultrasonic sensor showing correct distance?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Sharp sensor showing correct distance?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Yaw is correct?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Cobra reacts to black or white?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	One spin of the wheel gives 1464 encoder counts?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Measurement:		
Corrective action: (if failed)		



Task:	Motors Move?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		
Task:	Camera gives video?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:

Operation

Task:	Robot is enabled when start pushed?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		

Task:	Robot is stops when E-Stop pushed?	
Task Type:	Visual Only:	Functional:
Passed:	Yes:	No:
Corrective action: (if failed)		