Date:

Elevator Floor Call Test Plan

DISCLAIMER: This test plan is intended to test and confirm that elevator floor commands are fully functioning via CAN communication for an elevator network. The person performing these tests must meet the following criteria:

Safety Training: The tester must have appropriate safety training, which includes passing the Electronics Systems Engineering Safety Quiz.

Training Prerequisites: The tester must have successfully completed all prerequisite classes required for participation in Project VI.

Additionally, the following points should be considered:

Name of Test Inspector:

Only qualified personnel with relevant experience and knowledge should conduct these tests. All safety protocols and guidelines must be strictly followed during testing to ensure the tester's and others' safety. Testers must be proficient in using all relevant equipment and tools required for the testing procedures. Comprehensive documentation of all test results, observations, and anomalies must be maintained. Testers should be familiar with emergency procedures and have access to emergency contact information. Testing should be conducted in an environment that meets all safety and operational requirements for the equipment being tested.

Failure to adhere to these guidelines may result in inaccurate test results, equipment damage, or personal injury. The tester acknowledges and accepts these conditions by proceeding with the testing.

Test Number	Test Description	Pass/Fail Criteria	Measurements/	Results:
	_		Observations	Pass/Fail
	Sect	ion 1 Initial Elevator Inspection	on	
1.1 Visual	Inspect the elevator			
Inspection	system for correct	Pass: All components are		
	assembly and connection	correctly connected with no		
	of all hardware	loose or exposed wires.		
	components. Verify that			
	all wires and connectors			
	are correctly attached.			
	Ensure there are no loose			
	parts or exposed wires.			
	Check that the Raspberry	Fail: Any component is		
	Pi and other electronic	incorrectly connected, loose,		
	components are securely	or has exposed wires.		
	mounted.			

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1.2 Power-	Confirm that the elevator	Pass: The system powers on	
On Check	system powers on	without issues, and all	
	correctly. Connect the	indicator lights function	
	power supply to the	correctly.	
	system. Switch on the		
	power and observe the	Fail: All systems do not	
	system's startup. Ensure	power on, or indicator lights	
	all indicator lights are	do not function as expected.	
	functioning as expected.		
1.3 Safety	Verify that the system is		
Check	in a safe operational state	Pass: Emergency stop	
	to proceed with further	mechanisms are functional,	
	testing. Ensure emergency	and no hazards are present.	
	stop mechanisms are		
	accessible and functional.	Fail: Emergency stop	
	Confirm that there are no	mechanisms are non-	
	hazards (e.g., items that	functional, or hazards are	
	may interfere with	present.	
	moving components		
	within the elevator).		
	Section	n 2 CAN Communication Test	ing
2.1 Network	Ensure all elevator nodes	Pass: All elevator floor	
Connectivity	operate on the CAN	controllers respond to any	
Test	network with the same	blue push button press by	
	communication protocol	illuminating their LEDs.	
	by pushing the blue		
	button on any node	Fail: Any floor controller	
	(STM32 Dev. Board).	fails to illuminate their LED.	
2.2	Validate that floor	Pass: Every push button	
Command	requests are received and	yields the correct command	
Execution	transmitted to the correct	execution, and the expected	
Test	controller by testing each	LEDs illuminate in response.	
	floor request button.	_	
	Observe the execution via	Fail: The elevator fails to	
	floor and button LEDs to	respond to the command, or	
	verify that the correct	the action does not occur as	
	controllers respond.	expected.	

I,	(print name here), hereby confirm that the
,	curate and truthful to the best of my knowledge and ability.
Signature:	Date: