This checklist must be submitted as a PDF as part of your submission.

Email	of Certifying Engineer(s): Colby Banbury of Certifying Engineer(s): cbanbury@g.harvard.edu (s) of System Under Test: Nucelo_L4R5Zl
Divisio	n (check one):
	Open
\square	Closed
Catego	ory (check one):
\square	Available
	Preview
	Research, Development, and Internal (RDI)
Bench	mark(s) (check all that apply):
\square	Visual Wake Words
\square	Keyword Spotting
\square	Anomaly Detection
\square	Image Classification
Please	e fill in the following table adding lines as necessary:

System Under Test Name	Benchmark	Accuracy/AUC
Nucelo_L4R5ZI	Visual Wake Words	86%
Nucelo_L4R5ZI	Image Classification	86.5%
Nucelo_L4R5ZI	Keyword Spotting	91.7%
Nucelo_L4R5ZI	Anomaly Detection	0.86

For each SUT, is the benchmark Accuracy/AUC target met? (Not a requirement for the Open division) (check all that apply):

- ✓ Yes (Visual Wake Words ... 80% Accuracy)✓ Yes (Keyword Spotting ... 90% Accuracy)
- ☑ Yes (Anomaly Detection ... 0.85 AUC)
- ☑ Yes (Image Classification ... 85% Accuracy)
- ☐ No, for some combination of benchmark, scenario and SUT

For each SUT and benchmark, did the submission run on the whole validation set in accuracy mode? (check one):

☑ Yes

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□ No
For each SUT and benchmark, does the submission use the EEMBC Runner? (check one) ✓ Yes No
For each SUT and benchmark, is the same code run in accuracy and performance modes? (check one) ✓ Yes □ No
Are the weights calibrated using data outside of the official calibration set? (check one) ☐ Yes ☐ No
What numerics does the submission use? (check all that apply) INT4 INT8 INT16 UINT8 UINT16 FP11 FP16 BF16 FP32 Other, please specify:
What backend does the submission use? (check all that apply) ☐ Vendor backend, please name: ☐ TF-Lite Micro ☐ Micro TVM ☐ Other, please specify:
Which of the following caching techniques does the submission use? (check all that apply, ideally none): Caching Inputs between iterations Caching responses between iterations Caching intermediate computations between iterations
Which of the following techniques does the submission use? (check all that apply, ideally none if submitting to the closed division.)

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	Wholesale weight replacement Weight supplements Discarding non-zero weight elements Pruning Modifying weights during the timed portion of an inference run Hard coding the total number of queries None of the above
\square	submission congruent with all relevant MLPerf rules? Yes No
If the a	inswer to the above question is no, please explain:
\square	ch SUT, have you filled out the JSON system description file? Yes No
\square	ch SUT, does the submission accurately reflect the real-world performance of the SUT? Yes No
	Your submission include the following: (check all that apply) System description file Code that implements the benchmarks Code/scripts that train the model(s) (Open Division) Metadata that describes each system-implementation combination tested Scripts that set up and execute each system implementation tested Result logs for each system implementation tested This Checklist