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

Name of Certifying Engineer(s): Email of Certifying Engineer(s): Name(s) of System Under Test:	ohawks@fnal.gov	
Division (check one): ✓ Open □ Closed		
Category (check one): ✓ Available □ Preview □ Research, Developmen	nt, and Internal (RDI)	
Benchmark(s) (check all that apply Visual Wake Words ☐ Keyword Spotting ✓ Anomaly Detection ✓ Image Classification Please fill in the following table a		
System Under Test Name	Benchmark	Accuracy/AUC
Pynq Z2	Anomaly Detection	74.6%/82%
Pynq Z2	Image Classification	76.5%/88%
For each SUT, is the benchmark division) (check all that apply): Yes (Visual Wake Words Yes (Keyword Spotting Yes (Anomaly Detection Yes (Image Classification No, for some combination For each SUT and benchmark, of mode? (check one): Yes No	80% Accuracy) 90% Accuracy) 0.85 AUC) n 85% Accuracy) n of benchmark, scenario and S	UT

For each SUT and benchmark, does the submission use the EEMBC Runner? (check one)

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	Yes
	No
(check ✓	ich SUT and benchmark, is the same code run in accuracy and performance modes? yes No
	e weights calibrated using data outside of the official calibration set? (check one) Yes No
	numerics does the submission use? (check all that apply) INT4 INT8
	INT16
✓	UINT8
	UINT16
	FP11
	FP16
	BF16
	FP32
	Other, please specify: ap_fixed <32,6>, <16,6>, <14,6>, <11,11>, <11,6>, <11,1>, 2,6>, <9,6>, <8,8>, <8,6>, <8,3>, ap_ufixed <8,0>
What I	backend does the submission use? (check all that apply)
	Vendor backend, please name:
	TF-Lite Micro
	Micro TVM
✓	Other, please specify: hls4ml
	of the following caching techniques does the submission use? (check all that apply, none):
	Caching Inputs between iterations
	Caching responses between iterations
	Caching intermediate computations between iterations
	of the following techniques does the submission use? (check all that apply, ideally none if tting to the closed division.)
✓	Quantization aware training
	Wholesale weight replacement

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✓	submission congruent with all relevant MLPerf rules? Yes No
If the	answer to the above question is no, please explain:
✓	ach SUT, have you filled out the JSON system description file? Yes No
✓	ach 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