Email	of Certifying Engineer(s): of Certifying Engineer(s): (s) of System Under Test:	ohawks@fnal.gov	
Divisio	on (check one):		
<b>√</b>	Open		
	Closed		
Categ	ory (check one):		
✓ Available			
	Preview		
	Research, Development,	and Internal (RDI)	
Bench	mark(s) (check all that ap	oly):	
	Visual Wake Words		
	Keyword Spotting		
	Anomaly Detection		
✓	Image Classification		
Please	e fill in the following table a	adding lines as necessary:	
System Under Test Name		Benchmark	Accuracy/AUC
Pynq-Z2		IC	83.5%/0.91
divisio	n) (check all that apply): Yes (Visual Wake Words Yes (Keyword Spotting Yes (Anomaly Detection Yes (Image Classification	. 90% Accuracy ) 0.85 AUC)	
mode′	nch SUT and benchmark, or P (check one): Yes No	lid the submission run on the wh	ole validation set in accuracy
	ch SUT and benchmark, o Yes No	does the submission use the EEI	MBC Runner? (check one)

ch SUT and benchmark, is the same code run in accuracy and performance modes?  (one)  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: Fixed-point 8-12bits
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 sting to the closed division.)  Quantization aware training  Wholesale weight replacement  Weight supplements  Discarding non-zero weight elements  Pruning

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

	<ul> <li>Modifying weights during the timed portion of an inference run</li> <li>Hard coding the total number of queries</li> <li>None of the above</li> </ul>
5	e submission congruent with all relevant MLPerf rules?  Yes No
If the	e answer to the above question is no, please explain:
5	each SUT, have you filled out the JSON system description file?  Yes  No
5	each SUT, does the submission accurately reflect the real-world performance of the SUT?  Yes No
<u>5</u> 5	Syour 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
<u> </u>	<ul><li>Result logs for each system implementation tested</li><li>This Checklist</li></ul>