## **Appendix D: Design Completion Form**



To be completed by the lab supervisor during the time in the lab to record milestones. This form is an EXAMPLE ONLY and you MUST edit it to identify your own milestones (10-15) that you will attempt to meet during the progression of your design. Think about MILESTONES (what you'll show/deliver) rather than TASKS (what you'll do). You should aim to have a few milestones per subsystem (which probably build on each other), plus a couple of system milestones reflecting system integration. A single copy of this form should be printed, on one sheet of Landscape A4 paper, and brought to each lab session. It will be finalised by 17:00, on Monday 4th March.

Component of system/Milestone	Supervisor	Time/Date	Comments (all/part/none working; protoboard/constructed)
The back-end is proven to work using test data	SAL coles	12:00 / 25/2/19	Thoun to be working for multiple angles up to 2000 Hz
The microphone and pre-amp output between 0 to 3.3V	Lym	1/3/19/03	SUCCESSFUL OUTPUT USING 0-3.3V SPAM, FOR
ADC to MCU communications working at 50kHz	15/5	1/3/19	SAMPLING AT > 50 KHZ PEMONSTRATED
The Buffer communicates with Back-end at over 120kb/s	SAlgdin	12:30	Comunication at 21.5 kB/s denorshated
The back-end can calculate the angle to 9°	5	4/3/19	PROPLES ACCURACTOF N 19
The components fit in the case	55	4/3/19	COMPONENTS INSIDE THE CASE.
The LED ring can display angle	SAB	16:00,	Angle represented by LED ring tested using test data (microphones not working).
The WebUI can update at a rate greater than 60fps			
The Raspberry Pi can set load all required firmware and set-up on boot.	Aller	०५०३ १०:८१	"TPI" boots, K (apposently) reflashes the MCU which then sto
The device is fully constructed.	4	16:35	
Backend will be able to output amplitude at a resolution of 8-bits.	SAS	16:06	Shown able to process test data. Real data not available due to failure
Backend will be able to output frequency at a resolution of 100Hz.	SAS	15:45	Frequency values every 50 Hz
The LED ring and webUl can display frequency and amplitude data.			
After calibration the system rejects artificial ambient noise			
WebUI will be able to securely update the firmware of the system	aler	040] 10:30	load zigned billog from vale ul. sand to the creek.
Milestones finalised by supervisor Prototype hardware handed over to		1N	Signed Date 473/19