4YP Risk Assessment



Description of 4YP task or aspect being risk assessed her	e: (Read the Guidance Notes before completing this form)	4YP Project Number: 11410			
PiCom: A Digital Communications Test Bed Based on Raspberry Pi – Use of Raspberry pi and wireless breadboard					
Site, Building & Room Number:	Approx size of equipment/apparatus used or built (in metres):	Photo provided?			
Thom Building, Electronics Lab, 5 th Floor	Height:0.03 Width0.08 Length0.15	YES/NO			
Assessment undertaken by: Cameron Eadie	Signed: Cadie	Date: 02/11/17			
Assessment Supervisor: Justin Coon	Signed: Author Com	Date: 2.11-17			

Assessing the Risk* You can do this for each hazard as follows:		W MATRIX	LIKELIHOOD (or probability)			
		SK MATRIX	High	Medium	Low	Remote
Consequences: Decide how severe the outcome for each hazard would be if Consequences: Decide how severe the Occasional Posts would be "Sovere" as		Severe	High	High	Medium	Low
 something went wrong (i.e. what are the Consequences?) Death would be "Severe", a minor cut to a finger could be regarded as "Insignificant". Likelihood: How likely are these Consequences to actually happen? Highly likely? 	NSEQUENCES	Moderate	High	Medium	Medium/Low	Effectively Zero
Remotely likely, or somewhere in between? • Risk Rating: Start at the left of the coloured Matrix. On your chosen Consequences row, read across until you are in the correct Likelihood column for the hazard in		Insignificant	Medium/Low	Low	Low	Effectively Zero
question. For example, an outcome with Severe consequences but with a Low probability of actually happening equates to a Medium risk overall. In this case "Medium" is what should be written in the Risk.		Negligible	Effectively Zero	Effectively Zero	Effectively Zero	Effectively Zero

Hazard (potential for harm)	Persons at Risk	Risk Controls In Place (existing safety precautions)	Risk*	Future Actions identified to
				Reduce Risks (but not in place yet)
Electrical shock from 3.3V powered I/O pins or open circuit board on the Raspberry Pi	Student using the Raspberry Pi	 Use Raspberry Pi within its case whenever possible and avoid contact with I/O pins Remember to call GPIO.cleanup() function in python code to turn off any active I/O pins used by a program. Call this in the 'finally' section of a try-except block so that it always executes before program exit Do not connect I/O pins directly together – use resistors to prevent potential short circuit Subject power suppy of Raspberry Pi to Portable Appliance Test (PAT) at regular intervals 	Low	

Hazard (potential for harm)	Persons at Risk	Risk Controls In Place (existing safety precautions)	Risk*	Future Actions identified to Reduce Risks (but not in place yet)
Electrical shock constructing and prototyping electronics on wireless breadboard	Student prototyping electronics to connect to Raspberry Pi	 Never build or rearrange electronics on wireless breadboard while Raspberry Pi is powered and I/O pins are connected to the board Ensure that both Pi's are grounded together Don't touch electronics while I/O pin connections are active 	Low	

