Department of Engineering Science

4YP Risk Assessment 2016

UNIVERSITY OF OXFORD

Description of 4YP task or aspect being risk assessed here: *(Read the Guidance Notes before completing this form)* Creating Pressure Sensor Circuit with Arduino Microcontroller for Step Counting		4YP Project Number: 11060
Site, Building & Room Number: Thom Building, 5th Floor, Electronics Lab	Approx size of equipment/apparatus used or built (in metres): Height: 0.2m Width: 0.2m Length: 1m	Photo provided? NO
Assessment undertaken by: Jamieson Brynes	Signed: Jamieson Brynes	Date:1/11/2016
Assessment Supervisor: L.TARASSENKO	Signed: L.Tarassenko	Date: 9/11/16

Assessing the Risk*

You can do this for each hazard as follows:

- Consequences: Decide how severe the outcome for each hazard would be if 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? 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 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.

RISK MATRIX

CONSEQUENCES	LIKELIHOOD (or probability)			
	High	Medium	Low	Remote
Severe	High	High	Medium	Low
Moderate	High	Medium	Medium/Low	Effectively Zero
Insignificant	Medium/Low	Low	Low	Effectively Zero
Negligible	Effectively Zero	Effectively Zero	Effectively Zero	Effectively Zero

Hazard *(potential for harm)*	Persons at Risk	Risk Controls In Place *(existing safety precautions)*	Risk*	Further Actions Needed to Reduce Risk
Potential burns as soldering Iron is extremely hot	Person soldering	1. Mounts available for placing the irons when not using them. 2. Wear heat proof gloves when soldering. 3. Use clamps or pliers to hold components when soldering to increase distance between the iron and the user. 4. Turn off iron when not in use.	Medium	Ensure the heat proof gloves are available.
Fumes from soldering can potentially be harmful	Those in close proximity to the soldering action	1. Use lead-free solder 2. Maintain a good distance from the soldering action to minimize the fumes inhaled 3. If in an enclosed area, use fume extraction 4. If possible, use an open area to allow for	Low	Check on availability of fume extraction systems