15802	RISK DESCRIPTION			TREND	INHERENT	CURRENT	RESIDUAL
	IAP: s5138877, Barber Jessy - Investigating the Health of a Footbridge using LoRaWAN technology				Medium	Low	Very Low

RISK OWNER	RISK IDENTIFIED ON	LAST REVIEWED ON	NEXT SCHEDULED REVIEW
Jessy Barber	14/03/2023	14/03/2023	14/03/2025

RISK ACTIVITIES	RISK FACTOR(S)	INHERENT	EXISTING CONTROL(S)	CURRENT	PROPOSED CONTROL(S)	TREATMENT OWNER	DUE DATE	RESIDUAL
Handling electronics Will often handle sensitive electronics during the design and build process of the project. Electronics may have long lead times and delay the project.	Actively handling sensitive electronics: Risk of destroying components with ESD.	Very Low	Control: Wear electrostatic wristband when handling electronics.	Very Low				Very Low
Soldering electrical connections Soldering electrical connections between electronics with a soldering iron in an electrical engineering lab.	Soldering electronic connections. Risk of burns & inhalation of solder fumes.	Low	Control: Eye protection and gloves. _____ Control: Extractor fans / ventilation.	Very Low				Very Low
Working on the footbridge Fastening three sensor nodes in their enclosures to the Griffith footbridge.	Sensor nodes need to be fastened to the footbridge. The footbridge is situated over busy highway traffic. There is a risk of dropping equipment onto the road below and causing an accident.	Medium	Control: The footbridge has protective railing.	Low	Design the module to be as small and lightweight as possible. Design a secure fitting so that there is no chance of the sensor nodes falling. _____ Plan where the sensor nodes will sit along the bridge before implementation. Gain approval from supervisor for field implementation of equipment.	Jessy Barber Yong Zhu	15/04/2023 14/04/2023	Very Low
Vibrating beam experiment Conducting a vibrating beam	Risk of crushing or physical injury if not securely fastened.	Low	Control: Cannot enter labs without enclosed footwear.	Very Low	Ensure the space surrounding the experiment is clear. Ensure that distance is kept whilst the experiment is running.	Jessy Barber	31/03/2023	Very Low

experiment to test sensor nodes in a mechanical engineering lab.						