Use this form to assist you to complete risk assessments for hazardous activities and processes. Any serious or ongoing hazards should be reported via [RiskWare](http://sydney.edu.au/whs/report/index.shtml) to ensure that appropriate corrective actions are tracked and completed.

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| **Faculty/School:** | AMME - Engineering | **Initial Issue Date: 12/-5/2017** |
| **Next Review Date:** |
| **Risk Assessment Reference Number:** | 01 | |
| **Risk Assessment Name:** | Parrot Drone MTRX Major Project | |
| **Prepared by:** | Angus Mitchell | |
| **Responsible supervisor/s:** | Stefan Williams | |

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| **Identify the activity and the location** | **Identify who may be at risk**  This may include fellow workers, students, visitors, contractors and the public |

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| **Activity or process**:  Flying a drone | **Persons at risk**:   * students in the area * Staff in the area |
| **Location**:  Raymond Kirby Robotics Lab | **Risk assessment team (Who was consulted?):** |

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| **List of Legislation, Code of Practice, Australian Standards, Guidance Materials used to determine control measures** |

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| **Risk Assessment Methodology** |
| Assessing the risk is a brainstorming exercise, which is most effectively carried out in a team environment with the people required to complete the activity or process. Most activities or processes are broken down into a variety of separate tasks. For each task, consider the hazards, the potential harm or negative outcomes and the conditions required for those negative outcomes to occur.  Whenever assessing the health and safety risks associated with a task, always consider the following primary risk factors.   * The **physical activities** required to complete the task e.g. repetitive movement, high force, physical exertion, awkward posture * The **work environment** e.g. lighting, work layout, traffic, thermal comfort, working in isolation * The **nature of the hazard itself** e.g. working with chemicals, microorganisms, radiation, machinery, potentially violent clients * The **individual workers involved**, e.g. level of training, skills, experience, health, age, physical capacity   The information gathered from the **risk assessment** process must be used to develop a **Safe Work Procedure (SWP).** |

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| **Task or scenario** | **Hazard/s** | **Associated harm,** e.g. what could go wrong? | **Existing Risk Controls** | **Current risk rating**  Use the Risk Matrix | **Any additional controls are required?[[1]](#footnote-1)** | **Residual risk rating**  Use the Risk Matrix |
| Flying Drone | Drone impact | Person could be hit by drone | Foam cover for blades | medium | * Create physical barrier between dron fying area and people. * Verbally warn people when drone flying session starts | low |
| Flying Drone | Drone causes electrical damage | Drone could knock over liquid or cause electrical fault | Emergency stop button  Electrical current limiting | Medium | * Remove liquid hazards before flying drone | low |
| Resting drone | Someone trips on drone | Somone could slip and be injured | None | Medium | * Store drone in a safe location | low |
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| **List emergency controls for how to deal with fires, spills or exposure to hazardous substances and/or emergency shutdown procedures** |

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| Lab Emergency procedures will be followed. Training of these procedures has already been completed for all members of lab |

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| **REVIEW** |

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| **Scheduled review date** | **1 year** | **2 years** | **3 years** |
| **Are control measures in place (YES/NO)** |  |  |  |
| **Are controls eliminating or minimizing the risk (YES/NO)** |  |  |  |
| **Are there any new problems with the risk (YES/NO)** |  |  |  |
| **Reviewed by:** |  |  |  |
| **Actual Review date:** |  |  |  |

**Risk Matrix**.



1. Always consider whether or not it is possible to eliminated the hazard or hazardous task altogether. If this is not possible, refer to the [hierarchy of risk controls](http://sydney.edu.au/whs/activities/control_or_fix.shtml). [↑](#footnote-ref-1)