Yellow Document Title Box:

FEEG2001 Systems Design and Computing 2023/24

Personal Project Logbook

**NAME: Joshua Poon**

**PROJECT: Multirotor UAV**

**TEAM: M02**

**ROLE(S): Writing code and integrating flight controller**

**How to use this logbook:**

* Please complete the section above by adding your full name, project choice, team number/name and your individual role(s).
* Please complete this individual logbook weekly by simply typing into the table provided on each of the pages. The table will expand with your content.
* Utilise bullet points to keep information clear and concise.
* Feel free to add visuals or links.
* Your individual logbooks should be completed in time for your weekly timetabled sessions.
* By using your live document in your dedicated Microsoft Project Teams Space, your project team will be given access to your individual logbook.

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# **WEEK 18:** Project Launch – Teambuilding - Initial Ideas

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| **DATE: 29/01/2024** |
| **Role(s):**   * **Programming** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**):  Looking forward to seeing the design of the UAV. Having equally distributed tasks may be hard since everyone has different strengths at different stages of the project. |
| **Questions Arising / Input Needed:**   * **What height should be the “drop height” to test the robustness of the UAV** |
| **Actions for the next week:**   * **Get a basic framework of the code in pseudocode and get some designs for the landing legs** |

# WEEK 19: Research, Ideation, Initial Prototyping

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| **DATE: 05/02/2024** |
| **Notable Outcomes from My Action through last week:**   * **Created a basic draft in pseudocode for the gimbal code** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**):  Looking forward to getting the gimbal code working. Cooperating with the person in charge of the gimbal design may be hard since there is only one gyroscope and we need to take turns in using it for testing. |
| **Questions Arising / Input Needed:**   * **Whether it is worth using the flight controller telemetry to control the gimbal** |
| **Actions for the next week:**   * **Create the presentation for the Design Context Overview** |

# WEEK 20: Design Context Overview

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| **DATE: 12/02/2024** |
| **Notable Outcomes from My Action through last week:**   * **Did the presentation and made a first draft of Arduino code** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**):  Look forward to getting the gimbal working. Testing it will be difficult because I’m in charge of the programming but the gimbal itself is with another person |
| **Questions Arising / Input Needed:**   * **Maybe some changes in the roles are necessary since 3 people on electronics might be too much** |
| **Actions for the next week:**   * **Completing the Arduino code for the gimbal and potentially trying to integrate the flight controller** |

# WEEK 21: Ideation, Iteration, Research & Prototyping

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| **DATE:19/02/2024** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |

# WEEK 22: Design Specification Pitch

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| **DATE:** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |

# WEEK 23: PITCH REVIEW plus Prototyping & Testing

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| **DATE:** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |

# WEEK 24: Prototyping & Testing

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| **DATE:** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |

# WEEK 25: Prototyping & Testing

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| **DATE:** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |

# WEEK 30: Prototype Finishing

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| **DATE:** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |

# WEEK 31: Prototype Finishing

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| **DATE:** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |

# WEEK 32: Demonstration

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| **DATE:** |
| **Notable Outcomes from My Action through last week:** |
| **Weekly Reflection** (What are you **looking forward** to, **what may be difficult**, and **why?**): |
| **Questions Arising / Input Needed:** |
| **Actions for the next week:** |