2nd 1R meeting

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| Minutes | September 27, 2016 | 14:00 | Andrew robinson room |

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| Meeting called by | All members |
| Type of meeting | Design Group Meeting |
| Facilitator |  |
| Note taker |  |
| Timekeeper |  |
| Attendees | Richard Cooke, Elliot Romney, Scott McQuaid, Robin Fieldhouse, Sang Hyuck Kim, Guillermo Tornero, Peter Macaulay, Mohamed Ziyavudeen |

## Important points of notice:

16:15 or 17:00 meeting. 16:15 sorted.

Drive security. Sorted.

## Agenda topics

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| [Time Allotted] | Go Round the table checking requirements work | [Presenter] |

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| Discussion | Robin rotor hub | | |
| Mohamed interested in structures (airframe and landing gear). | | | |
| Elliot -- Architecture and systems integration. \*\* Chief engineer \*\*  Richard – Performance \*\* Project Manager \*\*  Tornero – Weight and balance – stability and control  Kim – Rotor blade design  Scott - Electrical and Avionics  Pete – Engines Drives and Transmissions | | | |
| Conclusions |  | | |
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| Action items | | Person responsible | Deadline |
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| [Time Allotted] | Decide upon Chief engineer and Project manager and main roles | [Presenter] |

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| Discussion | It’s worth looking into a project based system (google projects?!?) | | |
| Git hub for code. Google docs for everything else. | | | |
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| Conclusions | Elliot chief engineer. Richard Project Manager | | |
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| Action items | | Person responsible | Deadline |
| Set up git hub for some version control | | RC | 28/09/16 |
| Look at LATEX and multiple people editing | | Scott | 28/09/16 |
| Set up group google calendar | | RC | 27/09/16 |

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| [Time Allotted] | Concept selection and initial sizing plan | [Presenter] |

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| Discussion | Split into 2 teams to perform an independent comparison of different concepts, with a trade off study and first iteration of initial sizing. Then compare. | | |
| Guimbal Cabri G2 – best for range. | | | |
| We need to keep track of what we’re rejecting.  We have to justify novel things.  Helicopter museum at Western worth visiting.  Need to include tipjet as an option.  Let’s use the Robinson R22 as a sanity check (comparing weights etc).  Phil Mellor is good for electrical contact.  Actually advantageous to look at initial sizing>> Prouty  Flight school is target market, need to speak to helicopter training schools.  Two bladed teeter is dangerous as you lose control>> look at having a hinge offset. (see 3rd year notes for offsets). | | | |
| Conclusions | Agreed that we will go straight to CS-27. Ducted fan tail rotor will be good for safety and noise. | | |
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| Action items | | Person responsible | Deadline |
| Perform trade off study. | | All | 29/09/16 |
| Initial sizing with back of the envelope calculations. | | All | 29/09/16 |
| Everyone use google docs and look at the drive. | | All | 29/09/16 |
| Everyone come up with team name and helicopter name | | All | 29/09/16 |