DESN1K Stream 3 Group G		
Date of meeting:	Meeting opening time:	Meeting adjourned:
17/03/2025	3:45pm	4:47pm
Meeting type:	General	
Project Admin:	Sam He	
Secretary/Minute Taker:	Oskar Meszaros	
Approval of agenda:	Sam He	
Approval of previous minutes:	Sam He	
Present:	Oskar Meszaros	
	Sam He	
	Adam Cook	
	Tianqi Wang	
	Alex Nyugen	
Absentees:	Reece Carr	

New business

	Agenda Item	Action
1)	Feedback from Assessor - Sam He: A+ - Tianqi Wang: Needs to submit at a later date - issues on the day - Adam Cook: All distinction boxes checked, your team seems very well developed and on the right track - Alex Nyugen: no feedback, assessor seemed positive - Oskar Meszaros: work comparable to second year's work	Everyone
2)	Xfoils - Have everything done by thursday - It has parameters that he is unsure about - Thinks he can get the graph for lift vs	Tianqi Wang

	alpha - Goal of the morphing to have different profiles at different angles of attack, start with one base profile, use xfoil to look into different profile for different angles of attack	
2)	Task Allocation - Everyone: prepare the presentation - Reece Carr: printing a design - Alex Nyugen: design a mechanism for the joint connecting the servo to the wing itself. Also work on the NACA profile, in particular the default profile, and how we can modify the camber with the mechanism, send the profiles to Tianqi - Adam Cook: work on prototype mechanism, laser cutting the prototype. Have a physical prototype - Tianqi Wang: work on the xfoil, work on the interface point between the carbon fibre and the skin. Help Adam with his mechanism - Sam He: continue to work on mechanism. Upload all previous/future mechanisms to github - Oskar Meszaros: analysis on the data from the wind tunnel.	Sam He
3)	Idea presentation - Adam Cook: files will be uploaded to the github. Basic idea: the mechanism is contained within the thickness of the skin of the profile - Sam He: files will be uploaded to the github. Revision of the previous designs. Basic idea: the servo is only working on the top surface, supports are laser cut. At the interface between the seal and the skin rough up the surface to create turbulence, which will cause the air to stick to the wing longer. It will increase AoA needed to stall, and decrease pressure drag. Have a second servo to lock the position of the first servo during long durations of flight.	Everyone
Additions to the agenda		
	Agenda Item:	Action
1)	Begin Assembly: - Baseline airfoil NACA 0014 - Start putting parts into a master assembly	

	file	
2)	Review design presentation and report - Alex Nyugen wants to narrate the whole thing, everyone provides a script for their section - Write the scripts in third person for Alex to speak - Possible second narrator - could be Tianqi	Everyone
3)	Review tasks for Thursday - Sam He - have prototype ready for testing - Oskar Meszaros - Have a couple of airfoils for testing - 2415/2414/4414 - Alex Nyugen - Look into different camber position - rest state of the wing should be cambered - Tianqi Wang - design for camber, and allow for upward flexing. - Have everything ready for Thursday	