0:0:0.0 --> 0:0:0.590  
Ainsworth A (FCES)  
Hello.

0:0:0.-410 --> 0:0:23.740  
Asif M A (FCES)  
Uh, how do I, everyone, welcome back to the mean. I just wanna. I've made an agenda and I just want to go over some few points that we need to solve and should be completed by the end of this meeting. So the first thing is, yesterday I've made the presentation and I came up with some rules for all of us. I just wanted to know if you guys wanna change your rules or if you're unhappy with it or if you're happy with it so.

0:0:24.670 --> 0:0:26.80  
Asif M A (FCES)  
Can anyone see my screen at the minute?

0:0:28.230 --> 0:0:30.110  
Jones C (FCES)  
I can't currently see it.

0:0:30.960 --> 0:0:31.360  
Ainsworth A (FCES)  
No.

0:0:30.810 --> 0:0:31.570  
Afzal H (FCES)  
I can't as well.

0:0:31.340 --> 0:0:31.820  
Asif M A (FCES)  
About.

0:0:32.510 --> 0:0:33.160  
Asif M A (FCES)  
How about now?

0:0:35.140 --> 0:0:36.150  
Asif M A (FCES)  
I don't one SEC.

0:0:40.760 --> 0:0:41.180  
Asif M A (FCES)  
There we go.

0:0:42.470 --> 0:0:43.280  
Asif M A (FCES)  
Can you see my screen?

0:0:42.570 --> 0:0:44.420  
Jones C (FCES)  
Yeah, we can see it. Yep. Can see it now.

0:0:44.510 --> 0:0:44.900  
Ainsworth A (FCES)  
Yep.

0:0:45.440 --> 0:0:54.0  
Asif M A (FCES)  
Right. So made this presentation. These are the rules I've come up with. Is everyone happy with them or does anybody wanna change their rules or unhappy with them?

0:0:55.450 --> 0:1:4.560  
Asif M A (FCES)  
So I said myself as the group leader, Humza will be Secretary, Alex will be the hardware engineer and Cameron you can do software cause you're good at programming. But.

0:1:5.700 --> 0:1:7.670  
Asif M A (FCES)  
Is anyone happy with that and not happy with that?

0:1:8.380 --> 0:1:9.670  
Jones C (FCES)  
Yeah, I'm. I'm happy.

0:1:8.600 --> 0:1:13.130  
Ainsworth A (FCES)  
I'm happy with that. What? What does hardware engineer entail?

0:1:24.340 --> 0:1:24.830  
Ainsworth A (FCES)  
So.

0:1:14.450 --> 0:1:27.330  
Asif M A (FCES)  
So stuff with the PCB, soldering again, the components ready stuff with the PCB. So actually going through with the, that's your job basically and Cameron will be in charge of doing the Arduino programming it.

0:1:27.990 --> 0:1:28.690  
Asif M A (FCES)  
Basically.

0:1:32.370 --> 0:1:32.600  
Asif M A (FCES)  
But.

0:1:29.610 --> 0:1:36.50  
Ainsworth A (FCES)  
OK, so I'm making the thing. I'm the main guy making it, I guess, and then Cameron will be doing the.

0:1:35.10 --> 0:1:36.350  
Asif M A (FCES)  
Because you're gonna experience.

0:1:37.520 --> 0:1:38.950  
Ainsworth A (FCES)  
Cameron will be doing the.

0:1:36.990 --> 0:1:39.200  
Asif M A (FCES)  
Yeah, because you got experience in soldier.

0:1:39.870 --> 0:1:40.130  
Asif M A (FCES)  
Yeah.

0:1:39.960 --> 0:1:41.980  
Ainsworth A (FCES)  
The coding and the.

0:1:45.620 --> 0:1:47.230  
Ainsworth A (FCES)  
Welding, if there is only.

0:2:5.950 --> 0:2:6.290  
Ainsworth A (FCES)  
OK.

0:1:48.750 --> 0:2:7.80  
Asif M A (FCES)  
Yeah, he's got experience the world, and we can always like help each other out. But like the main person behind each row is, like, stayed on the screen. So you'll be mainly in charge and hardware because you go to soldering and you go with PCB's as well. So for you, I think this is what would be the best role for you. I think Cameron, obviously he's good.

0:2:5.440 --> 0:2:14.190  
Afzal H (FCES)  
And I guess you can, you can help us in the testing strategies cause you know the hardware and because you did the risk assessment as well.

0:2:16.670 --> 0:2:17.950  
Ainsworth A (FCES)  
Yeah, that's OK.

0:2:24.470 --> 0:2:25.60  
Jones C (FCES)  
Yeah.

0:2:16.350 --> 0:2:36.880  
Asif M A (FCES)  
And Cameron, you can also check with testing as well, because obviously from your Belbin test as well, you're like a perfectionist as well. So you could also have a look and me all overlook the project as well. But at the end of day, if anybody needs a hand over here to help each other, but each person is assigned their main role. So you like pretty much in charge of the one part of the project.

0:2:40.460 --> 0:2:43.310  
Asif M A (FCES)  
So wait, that's the presentation so after that?

0:2:44.330 --> 0:2:50.830  
Asif M A (FCES)  
We got assigned slides to each other, so I was thinking I would take the first and last slides cause I'm the group leader.

0:2:51.450 --> 0:3:5.770  
Asif M A (FCES)  
Umm, Alex, you can take hardware so you can talk about the block diagrams, there's specifications of the PCB. So we'll talk about the PCB designs in a bit, but before that let's just assign slides. So you're OK with talking about hardware.

0:3:7.60 --> 0:3:10.630  
Asif M A (FCES)  
And writing a script and talking to us about the block diagrams that we've made.

0:3:12.420 --> 0:3:16.800  
Ainsworth A (FCES)  
I'm OK with that, but I just have a question about.

0:3:18.230 --> 0:3:21.900  
Ainsworth A (FCES)  
What stuff would go in the hardware section?

0:3:23.800 --> 0:3:28.790  
Asif M A (FCES)  
Homes. Have you got the wait apart from the Booktype as well, schools in the hardware section.

0:3:35.490 --> 0:3:36.380  
Asif M A (FCES)  
PCB design.

0:3:27.780 --> 0:3:37.710  
Afzal H (FCES)  
You. Yeah. You know the artifact and the 3D model and the thing, you know, the program you have basically.

0:3:38.660 --> 0:3:39.110  
Ainsworth A (FCES)  
Yeah.

0:3:39.0 --> 0:3:40.190  
Afzal H (FCES)  
Get these things.

0:3:39.280 --> 0:3:42.550  
Asif M A (FCES)  
Do we need to put Proteus in? Do we need to put Proteus in?

0:3:43.750 --> 0:4:1.240  
Afzal H (FCES)  
And I I I was thinking about if you wanna talk about the PCB now I've done the circuit. Yeah. So if I can show you guys that tomorrow because I have a few confusions and within like 10 minutes we can get the PCB done tomorrow. If you guys want.

0:4:2.580 --> 0:4:2.910  
Ainsworth A (FCES)  
OK.

0:4:16.10 --> 0:4:16.420  
Afzal H (FCES)  
Yeah.

0:4:0.890 --> 0:4:20.950  
Asif M A (FCES)  
You know why I would say I would say I remember now. I remember on the document, he said if you can provide a PCB design, I think we should provide it if we're nearly there. I think all we gotta do is something to do with the relay. If we can do the tracking of the PCP, we're basically done. Then we could put it in. I think they'll be done within a day or two. So I think Google.

0:4:19.710 --> 0:4:23.600  
Afzal H (FCES)  
No, not even the dates that 515 minutes task if we stick.

0:4:23.90 --> 0:4:24.220  
Asif M A (FCES)  
15 minutes tops.

0:4:25.0 --> 0:4:25.290  
Asif M A (FCES)  
Good.

0:4:24.530 --> 0:4:35.90  
Afzal H (FCES)  
Yeah, because the, the, the, The thing is done here. Do you just go into the other PCB mode, put in the components, track them? That's it, it's 15 minutes Max. 20 minutes.

0:4:45.770 --> 0:4:46.780  
Afzal H (FCES)  
Yeah, it should.

0:4:35.940 --> 0:4:53.720  
Asif M A (FCES)  
So basically what Lisa happened tomorrow is you need to brief Alex on the PCB, show him the design, so send him the file of the design as well so that he knows like what's going on, what each component is, what each circuit's doing, and then just insert into the slides. And I think we'll, yeah, we should include it.

0:4:56.590 --> 0:4:56.900  
Ainsworth A (FCES)  
OK.

0:5:3.600 --> 0:5:3.940  
Ainsworth A (FCES)  
Yeah.

0:4:55.670 --> 0:5:15.530  
Asif M A (FCES)  
So Alex, you should do hardware for this slide. So it's gotta be detailed. You gotta talk about everything we just mentioned and then the next one would be software. So Cameron, this is probably all programming, so stuff to do with the Arduino. If you could just put that in and talk about it and explain it as well and see what each thing does.

0:5:17.40 --> 0:5:18.520  
Jones C (FCES)  
Yeah, I I can do that.

0:5:17.210 --> 0:5:21.330  
Asif M A (FCES)  
Not saying in detail, but like briefly so that everybody understands.

0:5:22.650 --> 0:5:23.480  
Jones C (FCES)  
Yeah, I can do that.

0:5:24.350 --> 0:5:27.850  
Asif M A (FCES)  
Is there a program done or is there still in works? It doesn't have to be done right now.

0:5:26.60 --> 0:5:28.50  
Afzal H (FCES)  
Yeah, the flow charts are done.

0:5:28.690 --> 0:5:29.590  
Afzal H (FCES)  
For charts are done.

0:5:29.260 --> 0:5:32.970  
Asif M A (FCES)  
Flow charts are then OK, good. Do we need to provide?

0:5:31.310 --> 0:5:33.700  
Afzal H (FCES)  
So we just need to put in. He can explain these.

0:5:34.950 --> 0:5:40.800  
Asif M A (FCES)  
Do we need to provide like a hard like screenshot of code into the slides or is that not needed?

0:5:41.660 --> 0:5:42.790  
Asif M A (FCES)  
We don't need a good.

0:5:40.110 --> 0:5:45.280  
Afzal H (FCES)  
No, no, no, because uh, the programming bit is of planned after January.

0:5:46.280 --> 0:5:46.780  
Asif M A (FCES)  
That's fine.

0:5:47.250 --> 0:5:50.110  
Afzal H (FCES)  
So we just need to provide flow charts and how the thing will work.

0:5:51.360 --> 0:6:20.930  
Asif M A (FCES)  
So how I think 2 minutes per slide or yeah, minute a half two minutes per slide. I think we should focus more on the these two slides. So the hardware and software are the main tool to be honest and then followed up by quality testing. We should focus on these three slides the most. So we should talk most of these slides and don't worry if any of you guys won't have an endpoint each slide, you can just let the person representing say their points 1st and if you wanna add anything on if they forgot something you can also.

0:6:22.890 --> 0:6:23.180  
Afzal H (FCES)  
Umm.

0:6:21.250 --> 0:6:23.970  
Asif M A (FCES)  
Talk as well. We'll remember. It's only 10 minutes ago.

0:6:24.840 --> 0:6:25.70  
Asif M A (FCES)  
1.

0:6:24.350 --> 0:6:34.310  
Afzal H (FCES)  
Yeah, for this thing I've heard bit of research. So we can like because we are meeting tomorrow as well. So it's better if we discuss there.

0:6:35.260 --> 0:6:35.580  
Asif M A (FCES)  
Yeah.

0:6:36.270 --> 0:6:36.620  
Afzal H (FCES)  
Right.

0:6:36.440 --> 0:6:39.820  
Asif M A (FCES)  
Good thing we have tomorrow as well. We're going person tomorrow, so it's good.

0:6:44.220 --> 0:6:44.660  
Jones C (FCES)  
Yeah.

0:6:39.570 --> 0:6:47.460  
Afzal H (FCES)  
Yeah. So we can, it's better we discuss. I need to show you few bit of things. So it will be easier for me to show you guys in the class.

0:6:49.140 --> 0:6:49.480  
Ainsworth A (FCES)  
Yeah.

0:6:49.30 --> 0:6:49.650  
Asif M A (FCES)  
Even better.

0:6:50.150 --> 0:7:1.80  
Afzal H (FCES)  
So probably testing strategy is probably because we send electronics device, so we need to make sure the the there is voltage regulation as well.

0:7:1.850 --> 0:7:2.660  
Asif M A (FCES)  
Of course, yeah.

0:7:2.600 --> 0:7:3.410  
Ainsworth A (FCES)  
Yeah, of course.

0:7:2.690 --> 0:7:5.740  
Afzal H (FCES)  
So like so, that sort of thing. Yeah, basically.

0:7:6.300 --> 0:7:6.840  
Ainsworth A (FCES)  
Others.

0:7:14.900 --> 0:7:15.480  
Jones C (FCES)  
Thank God.

0:7:6.390 --> 0:7:19.520  
Asif M A (FCES)  
So quality testing and testing strategy. Do you wanna split this slide or does one plus wanna take a A Hamza cause you haven't been assigned a slide? Do you wanna take this main slide up or do you want somebody to join in with you? It's up to you.

0:7:19.120 --> 0:7:28.210  
Afzal H (FCES)  
Umm, I don't mind honestly, but The thing is, I don't have the experience. If someone can give me a hand, I can do it because I do have ideas so I can exchange my opinion.

0:7:30.540 --> 0:7:33.210  
Asif M A (FCES)  
Umm is that? Has anybody like?

0:7:33.960 --> 0:7:36.650  
Asif M A (FCES)  
Done testing strategies before that everyone's first time.

0:7:36.980 --> 0:7:39.670  
Ainsworth A (FCES)  
Well, I think I mean for the testing.

0:7:40.560 --> 0:7:41.560  
Ainsworth A (FCES)  
It's to do with.

0:7:41.300 --> 0:7:42.650  
Asif M A (FCES)  
Is mostly your part.

0:7:42.320 --> 0:7:47.700  
Ainsworth A (FCES)  
If it is, you gotta link it to the URS, isn't you use the specification.

0:7:48.690 --> 0:7:52.260  
Ainsworth A (FCES)  
You've gotta make sure that it meets the criteria.

0:7:53.200 --> 0:7:53.540  
Afzal H (FCES)  
Umm.

0:7:54.670 --> 0:7:55.470  
Ainsworth A (FCES)  
That's kind of.

0:7:51.770 --> 0:7:57.810  
Asif M A (FCES)  
Their criteria? That's right. the US is also something we gotta talk about as well, but.

0:7:59.580 --> 0:8:1.160  
Asif M A (FCES)  
We need to get that done as well.

0:8:3.200 --> 0:8:3.460  
Asif M A (FCES)  
Things.

0:7:58.610 --> 0:8:7.340  
Ainsworth A (FCES)  
Yeah, but that's kind of what the main point of the testing is. You know, obviously making sure it works and but testing.

0:8:8.320 --> 0:8:10.660  
Ainsworth A (FCES)  
Every component so it meets A.

0:8:11.310 --> 0:8:12.360  
Ainsworth A (FCES)  
Specification.

0:8:13.30 --> 0:8:13.360  
Afzal H (FCES)  
And.

0:8:12.610 --> 0:8:23.30  
Asif M A (FCES)  
And also what the client wants the way they want it to look and all that, it's gonna be a good quality good material. So you gotta get that US then as well ASAP. So this slide.

0:8:21.250 --> 0:8:23.700  
Ainsworth A (FCES)  
Yeah, we we have to, we have to think about.

0:8:23.720 --> 0:8:24.40  
Asif M A (FCES)  
Yeah.

0:8:24.680 --> 0:8:27.310  
Ainsworth A (FCES)  
The way that we test, you know like.

0:8:28.100 --> 0:8:28.600  
Afzal H (FCES)  
Yeah.

0:8:29.310 --> 0:8:31.600  
Ainsworth A (FCES)  
You know, making sure you like make like save.

0:8:29.310 --> 0:8:32.70  
Asif M A (FCES)  
Exactly. I think this slide, yeah.

0:8:32.870 --> 0:8:40.770  
Ainsworth A (FCES)  
I was gonna say like say with the PCB say like with soldier and things you know, obviously doing stuff like using the amateur and probe and.

0:8:43.760 --> 0:8:44.550  
Asif M A (FCES)  
Multi SIM.

0:8:43.320 --> 0:8:46.580  
Ainsworth A (FCES)  
Different soldering joints and stuff like that.

0:8:45.780 --> 0:8:48.310  
Asif M A (FCES)  
Speed. Test it before, yeah.

0:8:49.60 --> 0:8:49.300  
Asif M A (FCES)  
Uh.

0:8:48.210 --> 0:8:52.0  
Ainsworth A (FCES)  
Yeah. And obviously with CODING like Cameron would be able to do the testing.

0:8:52.880 --> 0:8:54.660  
Ainsworth A (FCES)  
For the codes, because he's writing them.

0:8:55.790 --> 0:9:6.870  
Asif M A (FCES)  
You know, for like simulation, are we using stuff like multi SIM software like that as well or you guys got other any other pieces of software we're using like easy ADA or anything like that?

0:9:11.470 --> 0:9:13.470  
Asif M A (FCES)  
I would say, yeah.

0:9:8.300 --> 0:9:15.650  
Ainsworth A (FCES)  
Oh wait, we can't use multi SIM for testing this. It's easy enough to do as long as long as it has an Arduino on it. Then we should be OK.

0:9:15.200 --> 0:9:16.960  
Afzal H (FCES)  
Just, yeah.

0:9:15.270 --> 0:9:24.120  
Asif M A (FCES)  
On I just remembered it doesn't. It doesn't, it doesn't. Has anybody got an alternative piece of software that has an Arduino for simulation? Anyone.

0:9:26.530 --> 0:9:27.450  
Jones C (FCES)  
No, I don't.

0:9:26.500 --> 0:9:28.370  
Ainsworth A (FCES)  
And I will have to look.

0:9:29.300 --> 0:9:31.530  
Asif M A (FCES)  
Right. That's one thing we'll write down.

0:9:29.730 --> 0:9:33.880  
Afzal H (FCES)  
I I've seen for years, but it's really hard.

0:9:35.80 --> 0:9:35.920  
Afzal H (FCES)  
In 40 years.

0:9:37.990 --> 0:9:38.440  
Afzal H (FCES)  
So.

0:9:46.370 --> 0:9:46.660  
Afzal H (FCES)  
Yeah.

0:9:48.30 --> 0:9:48.390  
Afzal H (FCES)  
Panel.

0:9:38.70 --> 0:9:50.270  
Asif M A (FCES)  
We'll discuss this tomorrow. Then I guess we'll stay with Ben. We'll and we'll also research as well. Maybe he can give us an idea, but we could probably search on the Internet for software we could use and learn and use software.

0:9:49.240 --> 0:9:52.230  
Afzal H (FCES)  
Do we need to? Do we need to show the simulations as well?

0:9:53.860 --> 0:10:10.160  
Asif M A (FCES)  
I would say do it just to get some extra marks, cause you also theoretically tested and you're also tested them in the real world as well, so it gives you more of like a back end that in it'll work. So I would say it's but not in the presentation, but this I would say later on. I think it'll be important.

0:10:10.750 --> 0:10:12.340  
Ainsworth A (FCES)  
Well, it would. It would help.

0:10:10.930 --> 0:10:12.740  
Asif M A (FCES)  
Right now, we're still in development.

0:10:21.70 --> 0:10:21.620  
Asif M A (FCES)  
Works.

0:10:22.880 --> 0:10:23.490  
Asif M A (FCES)  
Exactly.

0:10:13.550 --> 0:10:28.950  
Ainsworth A (FCES)  
It yeah, simulating it would be very handy to make sure the design that we have actually is supposed to work before we actually try and build something, realize that it doesn't work, and then spend ages trying to see ohh why doesn't this work?

0:10:30.350 --> 0:10:31.680  
Jones C (FCES)  
Yeah. And then after rebuild it.

0:10:32.460 --> 0:10:33.130  
Ainsworth A (FCES)  
Exactly.

0:10:30.520 --> 0:10:33.170  
Asif M A (FCES)  
So this slide mainly exactly.

0:10:35.680 --> 0:10:37.320  
Asif M A (FCES)  
This slide will mainly.

0:10:38.20 --> 0:10:38.350  
Asif M A (FCES)  
Yeah.

0:10:35.540 --> 0:10:38.460  
Ainsworth A (FCES)  
So it's best to definitely best to do a simulation.

0:10:49.180 --> 0:10:50.20  
Afzal H (FCES)  
Yeah, for now.

0:10:39.750 --> 0:10:57.790  
Asif M A (FCES)  
I think this slide will mainly be Hamza S, but the surf and content are being there. We can also assign. I don't mind giving you a hand or any of us if you have an idea what we're doing. So tomorrow we can just do a little bit of research and then by the end of tomorrow probably the end of that one hour will already have this slide finished then.

0:11:7.670 --> 0:11:8.190  
Jones C (FCES)  
Yeah.

0:10:58.660 --> 0:11:18.480  
Asif M A (FCES)  
And then after that it will be the conclusion. I'll take the slide. Also, we're gonna have Q&A. So people will ask us questions. So we gotta make sure we're on the ball with everything we know about the project as well. So we all gotta read about it, know what it does as well. So that if we get any hard questions, we can answer them.

0:11:19.780 --> 0:11:20.90  
Jones C (FCES)  
Yeah.

0:11:21.650 --> 0:11:24.40  
Asif M A (FCES)  
So that's the presentation done. Any questions?

0:11:25.340 --> 0:11:32.300  
Afzal H (FCES)  
Uh, yeah, we need to add the URS in the presentation and the artifact as well.

0:11:34.680 --> 0:11:39.130  
Asif M A (FCES)  
We haven't done yet. You alright? So how how we need to break this down now so.

0:11:39.820 --> 0:11:41.650  
Asif M A (FCES)  
How long does the USB like a page?

0:11:44.70 --> 0:11:44.370  
Asif M A (FCES)  
Yeah.

0:11:39.950 --> 0:11:45.990  
Afzal H (FCES)  
Yeah, I asked. I asked. I asked Ben last time. He said you need to put that in the thing as well.

0:11:48.470 --> 0:11:49.180  
Afzal H (FCES)  
Presentation.

0:11:50.220 --> 0:11:50.690  
Ainsworth A (FCES)  
OK.

0:11:51.730 --> 0:11:58.410  
Asif M A (FCES)  
We've got a. A. What? You what you call it like a a template over. URS, we could start it.

0:11:59.890 --> 0:12:1.560  
Asif M A (FCES)  
How long would the US take?

0:12:0.330 --> 0:12:5.360  
Afzal H (FCES)  
If if you guys wanna sit in the class, we can do everything in an hour, honestly.

0:12:6.730 --> 0:12:15.260  
Asif M A (FCES)  
US won't take that long. It's it's like bullet. It's quite brief and it's just a little bit of detail on some points. It doesn't take that long as well. So yeah, we could do URS.

0:12:14.570 --> 0:12:38.340  
Afzal H (FCES)  
And you know the if you wanna and the artifact is basically how the thing will look. So we have to make it very generic cause our report even in the report, we said this very generic thing. So you can use it for multi purpose. So we need to decide upon the artifact and how are we going to make it. So it's accessible like in every situation.

0:12:39.150 --> 0:12:45.50  
Asif M A (FCES)  
Jimmy by the outside, do we also have the 3D multiplayer as well? And the way it looks as well, do we need to provide that?

0:12:43.90 --> 0:12:47.110  
Afzal H (FCES)  
He had the actual product. How it will look like that including the.

0:12:50.40 --> 0:12:50.520  
Afzal H (FCES)  
Yeah.

0:12:46.400 --> 0:12:52.470  
Asif M A (FCES)  
Haven't we not done that? Ohno, we've done the circuit, we haven't done at the actual the way actually looks.

0:12:51.820 --> 0:12:55.230  
Ainsworth A (FCES)  
We've yeah, we've not on the the.

0:12:56.390 --> 0:12:58.830  
Ainsworth A (FCES)  
The physical chassis or anything of that of it.

0:12:58.330 --> 0:13:0.370  
Afzal H (FCES)  
Yeah, exactly. That's what I'm talking about.

0:13:2.470 --> 0:13:6.640  
Asif M A (FCES)  
Any software, mind you guys wanna use like AutoCAD? Anyone got experiencing CAD?

0:13:8.910 --> 0:13:9.240  
Ainsworth A (FCES)  
Umm.

0:13:9.110 --> 0:13:9.410  
Jones C (FCES)  
Uh.

0:13:9.970 --> 0:13:12.360  
Asif M A (FCES)  
I've used the I've used SolidWorks briefly.

0:13:13.10 --> 0:13:16.260  
Jones C (FCES)  
Olive got quite a lot of time in solid works.

0:13:23.920 --> 0:13:24.220  
Jones C (FCES)  
Yeah.

0:13:17.490 --> 0:13:27.240  
Asif M A (FCES)  
Ohh, that's even that's more. That's even better then so you're quite comfortable with using SolidWorks. I mean we do also help you as all you that's so.

0:13:27.970 --> 0:13:30.940  
Asif M A (FCES)  
What deadline could we do? How long do you think it'll take you to make the model?

0:13:31.870 --> 0:13:34.950  
Asif M A (FCES)  
I don't think it'll take that long, but how long do you think it would take you?

0:13:39.330 --> 0:13:40.660  
Jones C (FCES)  
Shouldn't take long at all.

0:13:51.300 --> 0:13:51.790  
Afzal H (FCES)  
So.

0:13:51.350 --> 0:13:51.970  
Ainsworth A (FCES)  
Yeah, well.

0:13:42.780 --> 0:13:53.80  
Asif M A (FCES)  
I don't think you'll take that long. The thing is, do we have the dimensions on like the how it actually is? Do we actually have the dimensions of the size of the product or not? I think we do. Does anybody have a?

0:13:53.910 --> 0:13:54.560  
Ainsworth A (FCES)  
We need to.

0:13:53.720 --> 0:13:55.760  
Afzal H (FCES)  
That's in the URS, basically.

0:13:56.320 --> 0:13:58.410  
Ainsworth A (FCES)  
Yeah, if it's in the R stance.

0:13:56.770 --> 0:13:58.840  
Asif M A (FCES)  
So we haven't defined the dimensions.

0:13:59.550 --> 0:14:2.930  
Asif M A (FCES)  
Like, that's even better than so we can think about how big we want it.

0:14:3.700 --> 0:14:4.500  
Asif M A (FCES)  
That's fine then.

0:14:3.540 --> 0:14:8.230  
Afzal H (FCES)  
I guess we need to discuss these in the class, honestly.

0:14:9.450 --> 0:14:12.280  
Asif M A (FCES)  
I thought we had the dimensions, but we don't talk it even better.

0:14:13.100 --> 0:14:15.680  
Asif M A (FCES)  
I know we were talking about the circuit we were talking about the.

0:14:13.470 --> 0:14:18.800  
Afzal H (FCES)  
Because we change the, you know, we had a slight changes of plan.

0:14:21.60 --> 0:14:34.780  
Asif M A (FCES)  
I think we should have stuck with an idea right before the interim report, cause now we're like in a great area is good. In some ways it's bad in some ways, but at least now we have more time to, like, think and to make it better. So in a way, it did work well better.

0:14:35.450 --> 0:14:42.580  
Asif M A (FCES)  
So what else do we need to do now? That's the presentation. Then you are S we've done as well.

0:14:43.550 --> 0:14:59.500  
Asif M A (FCES)  
Roles. We've also finished, and the artifact we've finished, so we need to have a deadline because I'm flying now on Friday. I haven't told Alex. I haven't told you this either. Just told Cameron before the meeting. I'm flying out on Friday and the presentations on Tuesday.

0:14:57.960 --> 0:15:0.160  
Ainsworth A (FCES)  
I think you told me in the past earlier.

0:15:1.540 --> 0:15:1.890  
Ainsworth A (FCES)  
Yeah.

0:15:0.210 --> 0:15:4.160  
Asif M A (FCES)  
Oh, did I tell you? Ohh, even better. I found out. Ben said that.

0:15:5.950 --> 0:15:23.110  
Asif M A (FCES)  
That if anyone's traveling, we can rearrange and do it online. If he can, I'll speak to him and say, listen, I'm sorry for the inconvenience, but I'm all I'm flying out on those days. Would it be possible if you could move it online to A Wednesday, just a day after?

0:15:24.210 --> 0:15:28.680  
Asif M A (FCES)  
Out with everybody be happy with online or if you want we can do it in person. I honestly don't mind.

0:15:31.950 --> 0:15:33.560  
Jones C (FCES)  
I'm fine with doing it online.

0:15:34.740 --> 0:15:35.160  
Asif M A (FCES)  
Hamza.

0:15:35.640 --> 0:15:36.780  
Afzal H (FCES)  
Me as well online.

0:15:38.90 --> 0:15:39.100  
Asif M A (FCES)  
And Alex?

0:15:41.650 --> 0:15:43.740  
Ainsworth A (FCES)  
I'm out voted anyway, but I don't mind.

0:15:45.130 --> 0:15:46.160  
Asif M A (FCES)  
You don't mind diver?

0:15:48.670 --> 0:16:0.350  
Asif M A (FCES)  
Because I think if we get, if he does give us another day, we could also like perfect everything as well and get even more prepared. But that's just dependent on Ben. If he says do want to, if they were doing on Tuesday then.

0:16:1.570 --> 0:16:6.680  
Asif M A (FCES)  
So we're gonna have to finish this presentation really quickly. Does anybody wanna have a date?

0:16:7.400 --> 0:16:10.150  
Asif M A (FCES)  
I was thinking of getting this whole presentation done by.

0:16:11.370 --> 0:16:19.570  
Asif M A (FCES)  
Wednesday. So two days. I know it's a short deadline, but the earlier we get it, the more time with we have to perfect it. Does anybody want more time?

0:16:22.50 --> 0:16:38.0  
Asif M A (FCES)  
Thursday we could do, but I would say Wednesday we should get it done. Case we have to SC as well to do SC's deadlines coming up as well. So if we get this presentation done as soon as possible, we can have more time doing our own essays and also perfect in this and rehearsing it and getting this as good as we can.

0:16:38.790 --> 0:16:39.650  
Asif M A (FCES)  
There's Wednesday, OK.

0:16:41.470 --> 0:16:42.390  
Jones C (FCES)  
Sounds good to me.

0:16:43.750 --> 0:16:44.320  
Asif M A (FCES)  
Comes up.

0:16:44.40 --> 0:16:53.420  
Afzal H (FCES)  
If it's alright if we, I mean we have two hours of men's class and and our after. So in we can do lots of stuff in those three.

0:16:57.190 --> 0:16:58.170  
Afzal H (FCES)  
Yeah, this.

0:16:54.380 --> 0:16:58.920  
Asif M A (FCES)  
Where is the Ben still doing lectures or is he thought he was cutting down on them?

0:17:0.210 --> 0:17:1.260  
Afzal H (FCES)  
Well, he is I guess.

0:17:2.730 --> 0:17:8.190  
Asif M A (FCES)  
Even better. OK. Right. Then I think that's everything from the agenda today. Let me just double check the agenda.

0:17:9.20 --> 0:17:10.370  
Asif M A (FCES)  
See if I'm missing anything.

0:17:9.120 --> 0:17:14.390  
Afzal H (FCES)  
Yeah. And just add two slides for artifact and the URS.

0:17:17.890 --> 0:17:18.690  
Afzal H (FCES)  
It's the start.

0:17:15.520 --> 0:17:21.890  
Asif M A (FCES)  
Wish I had the mention. I add them in where you suggesting right at the start so after this.

0:17:22.250 --> 0:17:23.80  
Afzal H (FCES)  
You after this.

0:17:23.790 --> 0:17:27.380  
Asif M A (FCES)  
OK, it's minimum 6 slides in. It's no there's no maximum right?

0:17:31.90 --> 0:17:31.920  
Asif M A (FCES)  
So what do we?

0:17:27.630 --> 0:17:32.100  
Afzal H (FCES)  
Yeah, just we just need to be in time. So it's 10 minutes, 1012.

0:17:32.990 --> 0:17:36.820  
Asif M A (FCES)  
Who do you Rs here? And then what do you?

0:17:37.930 --> 0:17:38.680  
Asif M A (FCES)  
Umm.

0:17:43.840 --> 0:17:44.200  
Asif M A (FCES)  
2nd.

0:17:50.590 --> 0:17:51.180  
Asif M A (FCES)  
Alright.

0:17:54.370 --> 0:18:2.100  
Asif M A (FCES)  
This is going to be shared though, for one person, this is a lot. You are S I'll join in the URS cause. Ohh, no. You're S would be me because.

0:18:7.730 --> 0:18:9.200  
Afzal H (FCES)  
Yeah, yeah.

0:18:3.810 --> 0:18:13.110  
Asif M A (FCES)  
I'm the one who goes to the client, right? Me and the secretary could do this if I'm. If you wanna join along. Alright, we'll take the URS. So it's me.

0:18:14.630 --> 0:18:18.330  
Asif M A (FCES)  
Just introducing. Well, I would say everyone go name by name.

0:18:19.130 --> 0:18:23.530  
Asif M A (FCES)  
Actually, we just do that here. Actually, I'll start it off. I'll also take this slide as well.

0:18:24.250 --> 0:18:36.730  
Asif M A (FCES)  
This is brief anyway, so I don't mind taking this slide. Me and Hamza will take these slides will split in half, product artifact Cameron and Alex due to one and share it or does one of you guys wanna do it?

0:18:38.590 --> 0:18:40.570  
Ainsworth A (FCES)  
I'm sharing it is fine by me.

0:18:40.330 --> 0:18:41.60  
Asif M A (FCES)  
Sharona.

0:18:40.160 --> 0:18:42.320  
Jones C (FCES)  
Yeah, we can. We can share it, yeah.

0:18:43.90 --> 0:18:44.40  
Asif M A (FCES)  
Perfect. So.

0:18:45.290 --> 0:18:54.590  
Asif M A (FCES)  
Actually, I'll add everyone's names now so we don't have to like, we don't get confused later. So I'll so me, I'll do this slide as well.

0:19:1.410 --> 0:19:1.610  
Jones C (FCES)  
Hey.

0:19:7.730 --> 0:19:10.450  
Asif M A (FCES)  
Block diagrams are harder. Was addicts right?

0:19:11.220 --> 0:19:11.970  
Jones C (FCES)  
Yep.

0:19:12.490 --> 0:19:12.780  
Ainsworth A (FCES)  
Yeah.

0:19:14.990 --> 0:19:16.700  
Asif M A (FCES)  
Software was Cameron.

0:19:20.340 --> 0:19:22.510  
Asif M A (FCES)  
Quality testing the testing strategy.

0:19:25.330 --> 0:19:26.380  
Asif M A (FCES)  
So that we all.

0:19:28.210 --> 0:19:31.530  
Asif M A (FCES)  
Speak cause at this point most of us will be silent.

0:19:32.250 --> 0:19:40.880  
Asif M A (FCES)  
So all introduced about why quality testing so important and why we're using testing strategy so that I'll just give a brief summary so brief.

0:19:43.20 --> 0:19:43.810  
Asif M A (FCES)  
Summary.

0:19:45.250 --> 0:19:55.660  
Asif M A (FCES)  
Oh, oh, topics. And then from there you three should also join in on the slide. So he wants to talk about quality testing.

0:20:0.120 --> 0:20:0.720  
Asif M A (FCES)  
Ohh you.

0:19:56.990 --> 0:20:9.970  
Afzal H (FCES)  
Me. I'm I'm doing this thing right? Maybe if someone. Some of. Yeah. If Alex or someone. Any one of you wants to give me a hand would be better because I don't have much experience. But I'll do it.

0:20:10.820 --> 0:20:12.250  
Asif M A (FCES)  
The thing is with testing.

0:20:25.720 --> 0:20:26.60  
Ainsworth A (FCES)  
Well.

0:20:12.950 --> 0:20:32.70  
Asif M A (FCES)  
It has to be done to either I would say Alex cause you'll move the hardware type of guy as well. So you're gonna be doing most of the testing because you're working on the actual PCB, so it'd be good if you had to say and if Cameron, if you wanna talk about what you have to face and how you're testing it, which will be very brief, you can also add that in as well.

0:20:33.150 --> 0:20:35.50  
Ainsworth A (FCES)  
The thing is testing. It's just.

0:20:41.770 --> 0:20:42.500  
Asif M A (FCES)  
Pretty much.

0:20:44.600 --> 0:20:45.0  
Jones C (FCES)  
Yeah.

0:20:35.950 --> 0:20:45.20  
Ainsworth A (FCES)  
You know, taking the process that you're doing and then making sure it's right, so it applies to me and it applies to Cameron's.

0:20:45.660 --> 0:20:46.60  
Jones C (FCES)  
Yeah.

0:20:45.940 --> 0:20:59.130  
Asif M A (FCES)  
So you 2 baseball basically have to talk about your testing strategies. So if you guys have a problem, how you how you would solve it. So yeah. So Alex, you can go for hardware then.

0:21:0.40 --> 0:21:0.900  
Asif M A (FCES)  
So Alex.

0:21:0.640 --> 0:21:1.790  
Ainsworth A (FCES)  
You PIA.

0:21:3.400 --> 0:21:4.70  
Asif M A (FCES)  
Thank you for that.

0:21:5.970 --> 0:21:7.80  
Asif M A (FCES)  
I can't sell strategies.

0:21:5.940 --> 0:21:7.590  
Ainsworth A (FCES)  
That's going down on transcript.

0:21:9.30 --> 0:21:11.740  
Asif M A (FCES)  
Yeah, that's fine. You can have a bit of a laughing at joke.

0:21:12.880 --> 0:21:13.300  
Asif M A (FCES)  
I.

0:21:16.480 --> 0:21:17.150  
Asif M A (FCES)  
Yeah.

0:21:12.300 --> 0:21:17.810  
Afzal H (FCES)  
Because we don't have a QA guy as well. So someone would have to come in.

0:21:18.870 --> 0:21:25.780  
Asif M A (FCES)  
I think we would all like look at it as a whole because the Commons, naturally a perfectionist and.

0:21:27.50 --> 0:21:28.730  
Afzal H (FCES)  
Yeah, I've development test is.

0:21:27.840 --> 0:21:47.670  
Asif M A (FCES)  
You and you, you are very stubborn and you want things very perfect. Alex also is applied and then me. I'd overlook and have a look as well. The thing is, this has gotta be the best of the best. So everyone's aiming for near perfect or even perfect. So I think we're all kind of checking it together.

0:21:55.420 --> 0:21:55.940  
Jones C (FCES)  
So I.

0:21:56.110 --> 0:21:56.540  
Asif M A (FCES)  
OK.

0:21:48.980 --> 0:21:57.370  
Ainsworth A (FCES)  
Yeah, I mean I'm, I'm I'm a plant. But my perfectionist thing that Cameron's primary one is my secondary one. And it's only like 2 points behind.

0:21:57.760 --> 0:21:59.470  
Jones C (FCES)  
Not everyone is just just a ring.

0:22:3.0 --> 0:22:5.500  
Ainsworth A (FCES)  
Yeah, everybody's a psychopath.

0:21:59.340 --> 0:22:5.570  
Asif M A (FCES)  
OK. So everybody's basically aiming for perfection, so it's even better than so even though we're missing.

0:22:6.530 --> 0:22:7.190  
Asif M A (FCES)  
Pretty much.

0:22:9.110 --> 0:22:17.300  
Asif M A (FCES)  
Is because we have one less member. Actually it. It doesn't even make a difference to us to be honest based on Belbin and then conclusion.

0:22:18.50 --> 0:22:19.400  
Asif M A (FCES)  
Uh.

0:22:23.650 --> 0:22:23.830  
Jones C (FCES)  
You.

0:22:21.20 --> 0:22:25.290  
Asif M A (FCES)  
Wants to take these slides me and Hamza, my secretary.

0:22:24.680 --> 0:22:25.970  
Afzal H (FCES)  
Yeah, yeah.

0:22:26.700 --> 0:22:33.490  
Asif M A (FCES)  
We just summarize what we spoke about and yeah, pretty much what we just spoke on these slides.

0:22:34.260 --> 0:22:36.670  
Asif M A (FCES)  
And me, I'll take this slide.

0:22:38.110 --> 0:22:45.760  
Asif M A (FCES)  
And that's it, pretty much. I think this will be 10 minutes. So by Wednesday, so tomorrow we should focus on the URS and the artifact.

0:22:47.120 --> 0:23:14.790  
Asif M A (FCES)  
And then Wednesday or Tuesday night to Wednesday, or I'll even push it to Thursday. We just got right up the scripts and make sure you everyone times themselves and if they're all adds up to 10 minutes or even 10 minutes and then they'll be more actually waiting for 10 minutes because we were told 10 minutes. So if it aims for 10 minutes, then we're basically ready to go. I don't think we do. We should we all revise together? Is everybody OK with like doing their own script and talking about their own sides on their own?

0:23:17.310 --> 0:23:17.800  
Ainsworth A (FCES)  
Uh.

0:23:17.460 --> 0:23:19.470  
Afzal H (FCES)  
I guess we should do once before.

0:23:20.630 --> 0:23:34.490  
Asif M A (FCES)  
Once before and then, yeah, we'll do it once before and then we can all say that, OK, you need to sort this out, or you need to talk longer. I think then we'll know how everyone talks. So if somebody talks a bit too fast, I'm not naming any names. Hamza.

0:23:35.130 --> 0:23:35.540  
Afzal H (FCES)  
Yes.

0:23:36.330 --> 0:23:46.110  
Asif M A (FCES)  
Then then the other person can talk a little bit slower to bring the time up, because if we less than time we're gonna lose marks.

0:23:47.360 --> 0:23:58.90  
Asif M A (FCES)  
The gossip pretty much so I think that's everything for the meeting. Has anybody got any other questions about the project or software or hardware or anything, what everyone OK with that?

0:24:1.360 --> 0:24:1.930  
Afzal H (FCES)  
Umm.

0:24:1.950 --> 0:24:3.660  
Ainsworth A (FCES)  
Umm, I think that's all.

0:24:3.60 --> 0:24:4.0  
Asif M A (FCES)  
He knows everyone alive.

0:24:4.770 --> 0:24:5.220  
Asif M A (FCES)  
That's good.

0:24:5.70 --> 0:24:7.390  
Ainsworth A (FCES)  
I think that's all spongy.

0:24:8.750 --> 0:24:12.960  
Asif M A (FCES)  
Ah, even better. Right? Then I think we're done for today then so.

0:24:13.530 --> 0:24:13.850  
Afzal H (FCES)  
Yeah.

0:24:14.980 --> 0:24:22.660  
Asif M A (FCES)  
I'll see you guys soon, so if you want, you can start the presentation or the URS if you wanna get a head start, then I'll see you guys tomorrow then.

0:24:23.640 --> 0:24:23.960  
Afzal H (FCES)  
Yeah.

0:24:23.240 --> 0:24:25.970  
Ainsworth A (FCES)  
Make sure the transcript is saved as well for Ben.

0:24:30.60 --> 0:24:30.790  
Afzal H (FCES)  
Yeah you can.

0:24:26.100 --> 0:24:31.250  
Asif M A (FCES)  
Ohh yeah, if I don't then wait. Can you see my screen cause that stop recording here right?

0:24:30.70 --> 0:24:31.890  
Jones C (FCES)  
Hey, yes, you can see it.

0:24:31.990 --> 0:24:33.480  
Asif M A (FCES)  
Right. I'll stop there right now.