

Re: Capstone Project T15A

Shau Chi Hui <shui3677@uni.sydney.edu.au>

Wed 2/09/2020 5:43 PM

To: Cian (Robotics Masters) <cian@roboticsmasters.co>

Cc: Dylan Duplessis <ddup5819@uni.sydney.edu.au>; Justin Lee <jlee2180@uni.sydney.edu.au>; Yufan Xu <yuxu6642@uni.sydney.edu.au>; Xiaoxiang Wu <xiwu9085@uni.sydney.edu.au>; Derong Liu <dliu2530@uni.sydney.edu.au>; Abdallah Lakhdari <alak5184@uni.sydney.edu.au>

Hi Cian,

This is the personal zoom link, which will be held for this and the coming on-going meetings, <https://uni-sydney.zoom.us/j/2946858854>.

Best regards,
Nicholas

From: Cian (Robotics Masters) <cian@roboticsmasters.co>

Sent: Wednesday, 2 September 2020 2:19 PM

To: Shau Chi Hui <shui3677@uni.sydney.edu.au>; Cian Byrne <cian@roboticsmasters.co>

Cc: Dylan Duplessis <ddup5819@uni.sydney.edu.au>; Justin Lee <jlee2180@uni.sydney.edu.au>; Yufan Xu <yuxu6642@uni.sydney.edu.au>; Xiaoxiang Wu <xiwu9085@uni.sydney.edu.au>; Derong Liu <dliu2530@uni.sydney.edu.au>; Abdallah Lakhdari <alak5184@uni.sydney.edu.au>

Subject: Re: Capstone Project T15A

Hi Nicholas,

That will be fine for today. I will set up the weekly meetings (starting 14 September) going forward.

Kind Regards,

Cian Byrne
M: +61 458 644 173

From: Shau Chi Hui <shui3677@uni.sydney.edu.au>

Sent: Wednesday, 2 September 2020 1:49 PM

To: Cian Byrne <cian@roboticsmasters.co>

Cc: Dylan Duplessis <ddup5819@uni.sydney.edu.au>; Justin Lee <jlee2180@uni.sydney.edu.au>; Yufan Xu <yuxu6642@uni.sydney.edu.au>; Xiaoxiang Wu <xiwu9085@uni.sydney.edu.au>; Derong Liu <dliu2530@uni.sydney.edu.au>; Abdallah Lakhdari <alak5184@uni.sydney.edu.au>; cian.byrne@coliemore.com.au <cian.byrne@coliemore.com.au>

Subject: Re: Capstone Project T15A

Hi Cian,

Sorry about the zoom link confusion, because the link will be different every time, I create a new meeting on zoom, is it possible for me to send you the zoom link right before the meeting starts?

Best regards,
Nicholas

From: Shau Chi Hui <shui3677@uni.sydney.edu.au>

Sent: Wednesday, 2 September 2020 1:39 PM

To: Cian Byrne <cian@roboticsmasters.co>

Cc: Dylan Duplessis <ddup5819@uni.sydney.edu.au>; Justin Lee <jlee2180@uni.sydney.edu.au>; Yufan Xu <yuxu6642@uni.sydney.edu.au>; Xiaoxiang Wu <xiwu9085@uni.sydney.edu.au>; Derong Liu <dliu2530@uni.sydney.edu.au>; Abdallah Lakhdari <alak5184@uni.sydney.edu.au>; cian.byrne@coliemore.com.au <cian.byrne@coliemore.com.au>

Subject: Re: Capstone Project T15A

Hi Cian,

Here is the zoom link <https://uni-sydney.zoom.us/j/93504391987> for the meeting later today, I have added your work account to my zoom.

If you need any further information, please do let me know. Thank you.

Best regards,
Nicholas

From: Cian Byrne <cian@roboticsmasters.co>

Sent: Wednesday, 2 September 2020 1:32 PM

To: Shau Chi Hui <shui3677@uni.sydney.edu.au>

Cc: Dylan Duplessis <ddup5819@uni.sydney.edu.au>; Justin Lee <jlee2180@uni.sydney.edu.au>; Yufan Xu <yuxu6642@uni.sydney.edu.au>; Xiaoxiang Wu <xiwu9085@uni.sydney.edu.au>; Derong Liu <dliu2530@uni.sydney.edu.au>; Abdallah Lakhdari <alak5184@uni.sydney.edu.au>; cian.byrne@coliemore.com.au <cian.byrne@coliemore.com.au>

Subject: Re: Capstone Project T15A

Hi Nicholas,

Wednesday at 6 PM (today) is fine. Please send me a zoom link and also invite my work account cian.byrne001@syd.catholic.edu.au.

Kind Regards

--

Cian

Robotics Masters Limited

E: cian@roboticsmasters.co

On 2020-09-01 09:47, Shau Chi Hui wrote:

Hi Cian,

For this week's meeting will you be able to do a zoom call on Wednesday at 6PM?

We have replied to the questions you have asked in the previous email.

* What platform has the university asked you to use for code?
(Bitbucket, GitHub)
We are currently using Bitbucket this semester.

* What day is your tutorial on and is it a physical delivery or remote?

Our tutorial day is on every Tuesday from 3 PM to 5 PM and it will also be held on zoom.

* Have you been given the assessment schedule for deliverables for this unit yet? If yes, please send a copy.

This is the link for the assessment schedule,

<https://www.sydney.edu.au/units/COMP3888/2020-S2C-ND-CC> [3].

* For this unit, I was planning on doing three (3) meetings a fortnight. Do you have preferred days for on-going meetings? I was going to propose a schedule like so: Both Mondays and one Friday every 2 weeks. The meetings would be in the afternoon.

Most of our team members can do both Mondays and a Friday at 6 PM. Will these be the following dates for the on-going meetings (14/09, 28/9, 09/10)?

Thank you. Please let me know if you have any questions.

Kind Regards,
Nicholas

FROM: Cian Byrne <cian@roboticsmasters.co>
SENT: Monday, 31 August 2020 11:27 PM
TO: Shau Chi Hui <shui3677@uni.sydney.edu.au>
CC: Dylan Duplessis <ddup5819@uni.sydney.edu.au>; Justin Lee <jlee2180@uni.sydney.edu.au>; Yufan Xu <yuxu6642@uni.sydney.edu.au>; Xiaoxiang Wu <xiwu9085@uni.sydney.edu.au>; Derong Liu <dliu2530@uni.sydney.edu.au>; Abdallah Lakhdari <alak5184@uni.sydney.edu.au>; cian.byrne@coliemore.com.au <cian.byrne@coliemore.com.au>
SUBJECT: Re: Capstone Project T15A

Hi Nicholas and Team,

Apologies, I attached the incorrect project brief for your team. I am yet to develop a formal project brief for this project. We will discuss the requirements in our meeting.

It will be focused on drone path optimisation as stated in the project.

Research and Implement pathfinding (optimal delivery path) for drones with fixed parameters (limited range, fixed charging stations, no fly zones, number of drones, wind, and weather). Implement the algorithm in PX4 Gazebo simulator (or similar). Success will be measured on the performance in the simulation with a pre-set map of points.

As an extended challenge towards the end of the semester, we may explore the possibility of running these algorithms in Microsoft Flight Simulator, as it is very realistic for flight models with reasonably open-source documentation.

Talk soon.

Kind Regards
--
Cian
Robotics Masters Limited
E: cian@roboticsmasters.co

On 2020-08-31 22:58, Cian Byrne wrote:

Hi Nicholas and Team,

Thank you for reaching out. I am looking forward to working with all of you on this project. Your experience sounds great. You can call me Cian in future emails.

This project is an extension of a project that was started last semester that we will be building upon.

As Drones are tightly regulated, we will be doing all of the work in a

simulator. I have been looking at two simulators that are widely used in the drone community. You can read about them and find installation guides here <https://dev.px4.io/v1.9.0/en/simulation/> [1] if you want to get a head start. Gazebo & jMAVSim.

In terms of a Zoom Meeting for this week, can we do an afternoon call?

I work during the day and find it difficult to find time for meetings. Any day after 5 PM to 9 PM is easy for myself.

I have outlined some general information below as well, as I am running 6 teams this year everyone needs to be on the same page.

REGULAR MEETINGS

I would like to have regular meetings with all of you (or most of you) twice a week. These would be one at the start of the week and one at the end of the week. All would be conducted via Zoom after 4:30 PM any day of the week. Thursdays I am normally free from 3:30 PM, there is some flexibility here. I would expect meetings to go for no longer than 15-30 minutes. At these regular meetings we would discuss any issues that you are having, check how everyone is progressing with the expect outcomes of the course (reports, meeting notes, etc) and anything else you think necessary. Each week you should have a list of accomplishments and tasks for the following week. Please let me know what afternoon(s) best suits most of your group.

SLOTS FOR MEETINGS - [HTTPS://GITHUB.COM/WALLARUG/CAPSTONE2020](https://github.com/wallarug/capstone2020) [2] . PLEASE CLAIM TWO SLOTS (3+ DAYS APART)

COMMUNICATION

I am happy to communicate with all of you via email or have you propose alternative means. Email is also good for 'official' communications. We can discuss this further at our initial 'kick-off' meeting. If there is anything urgent, please send an email and CC my other address above (cian.byrne@coliemore.com.au).

QUESTIONS

I have a few questions for your team before our initial kick-off meeting.

1. What platform has the university asked you to use for code? (Bitbucket, GitHub)
2. What day is your tutorial on and is it a physical delivery or remote?
3. Have you been given the assessment schedule for deliverables for this unit yet? If yes, please send a copy.
4. For this unit, I was planning on doing three (3) meetings a fortnight. Do you have preferred days for on-going meetings? I was going to propose a schedule like so: Both Mondays and one Friday every 2 weeks. The meetings would be in the afternoon.

One final note, For any code related repositories, you can add my account @wallarug to your repositories. It is the same on BitBucket and GitHub.

If you have any further questions please let me know.

I look forward to meeting and chatting with you all shortly.

Kind Regards

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Cian

Robotics Masters Limited

E: cian@roboticsmasters.co

On 2020-08-31 19:09, Shau Chi Hui wrote:

Hello Mr. Byrne,

My name is Nicholas Hui, I am a part of the Capstone Project group (T15A) that has been assigned to this project. We'd like to arrange

an online meeting with you. So, we can discuss project requirements

and have introductions. The team consists of 6 of us; we have an excellent foundational knowledge of AI and algorithm design, and between us all, a large skill set covering many programming languages,

notably Python, C, and C++. Most of our members are available for a

zoom (or another video chat platform of your preference) call on Wednesday morning, however, if another time works better for you, we're happy to do as such.

We look forward to working with you!

Best regards,

Nicholas Hui

Links:

- [1] <https://protect-au.mimecast.com/s/MiQKck81N9twmR6wH2rS3G?domain=dev.px4.io/>
- [2] <https://protect-au.mimecast.com/s/MkgQC1x1NjiMg35MC980TM?domain=github.com>
- [3] <https://www.sydney.edu.au/units/COMP3888/2020-S2C-ND-CC>