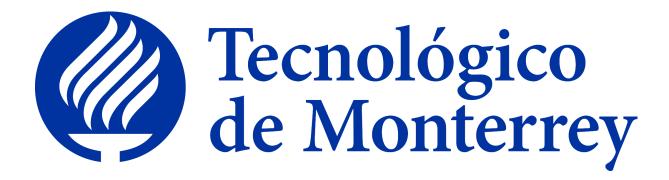INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY,
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Team Composition

By

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Modeling of Multi-Agent Systems with Computer Graphics, Gpo 301

Prof. Ivan Axel Dounce Nava

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Team Composition

Strengths

Diego Rodríguez Romero: One of my greatest strengths I think is that I'm able to organize both myself and my team quickly and in a way that we can all work in a well distributed manner. Also I´m always communicating with the team, that way we can solve problems that can arise to any of us and prevent them from blocking us.

Diego Alejandro Calvario Aceves: I think that one of my most important strengths is that I can work very well as part of a team, I can maintain a good communication with my team to ask for help or help my team if they need it, also, I can decide in which part of the project I can contribute the most and approach my abilities.

Milan Alejandro De Alba Gómez: Despite it shouldn't be seen as a strength, in case there is need to work with very little time and something is not working, i can improvise something up so that it works as it should. Nevertheless, this shouldn't be the case for most of the projects since there is an agenda to meet with every delivery.

Gonzalo Calderón Gil Leyva: One of the most important strengths I've identified in me is that when I'm working I can organize and find information to make the assignment more efficient and provide a more unique insight of the task at hand. Another one is that I'm able to improvise and work under pressure to ensure a good delivery.

Areas of opportunity

Diego Rodríguez Romero: My biggest opportunity to improve my way of working and my skills could be to read more, for some topics of the agent theory I tried to implement them in the simulation without completely understanding them and that made it difficult for me sometimes. If I do some extra research before starting to implement the theory I think that my workflow would be easier and more efficient.

Diego Alejandro Calvario Aceves: The main area of opportunity that I detect is that I can improve my knowledge about agents, because is an important topic that can help me also in other areas like Artificial Intelligence, and also I can improve my ability to simulate things in

different softwares, like in this time in Unity, I have learned new things about this software and also improved my familiarity with the C# language programming.

Milan Alejandro De Alba Gómez: One of the biggest areas of opportunities is to be more organized and efficient with the given time, so that the ability mentioned above in the strengths doesn't need to be used. This way, there could be more time to get things done and do them under control, as well as being prepared in case something unexpected happens.

Gonzalo Calderón Gil Leyva: The most important area of opportunity for me is to understand the work in a more meticulous way like the functionality of the code and what role every function and variable are playing and, in that way, having a better way of understanding the results of the program as a whole so that i can implement it in future projects or assignments. Also trying to focus on learning how my partners and I work as a team could help me get better in a way so that I can be a better teammate in my future as a professional.

Expected Achievements

Diego Rodríguez Romero: I hope that at the end of the challenge and the course I can have a solid knowledge about agent theory, because I think that agents are something that is going to start to be more common with AI Agents and understanding them is going to be very important. Also, implementing them is another big thing that I would like to learn. Already for the Integrating Activity I created the robot agent so I'm beginning to have a Good understanding of how to do it.

Diego Alejandro Calvario Aceves: I expect to have a better understanding of agents logic and how can I implement them in different scenarios, also I want to be prepared to apply all this knowledge to other projects because I think that is something very useful and important in the software area, even more with the importance of AI in this new world.

Milan Alejandro De Alba Gómez: My main expectation is to get a better understanding of the topics needed to develop the project, this means, the theoretical knowledge plus the practical one. This serves my second expectation, which is to be able to recreate and improve similar projects in the future.

Gonzalo Calderón Gil Leyva: I expect to understand all that we did 100 percent and, of course, to do an outstanding job with the project. The topic and the problematic at hand is very interesting to me and having a very solid set of skills regarding the course is going to help me develop myself as a better programmer and professional. Also, getting to know how to handle graphics and developing in Unity are some achievements that i look forward to get.

Commitments

Diego Rodríguez Romero: I will review the presentations to cover any topic that I didn't understand completely during class. I will take charge of the simulation part in the challenge, ensuring that each agent is well designed and has good functionality first in the Python simulation before trying to do it in Unity.

Diego Alejandro Calvario Aceves: I will practice after classes with exercises in Python to try to implement the theory that we learned in class, additionally I will make some little advancements to the simulation in Unity every week in order to have a better progress and solve my questions as we go forward with the project.

Milan Alejandro De Alba Gómez: I will focus on the theoretical part, but also having an understanding of how the practical works to make sure the practical really embraces what the theory states it should. Furthermore, i will review some details that are quite important to the project, such as the vision of the camera integrated in the drone.

Gonzalo Calderón Gil Leyva: I will not only focus on learning the theory of the course, but practice more with how to implement all the knowledge in a more practical way, learning how it works with real life scenarios. Regarding the project I will put all of my effort on being efficient with my team and implementing the computer vision part of the project ensuring that it works perfectly as the course demands.