

## Omar Ulises Montiel Escalante

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### EDUCATION

Instituto Tecnológico y de Estudios Superiores de Monterrey  
Bachelor of Science in Computer Science and Technology Engineering  
Graduating December 2022  
Cumulative GPA: 94/100

### MAJOR PROJECTS

- Fall 2019* StudNet: Mobile app developed for HackMTY to aid students new to our university campus. Built with the Android SDK and API, connected the multiple activities developed using Java and constructed parts of the UI using XML.
- Spring 2019* RCJ Soccer Lightweight: Team of 4 RoBorregos members. Developed the program to detect the robot's sensors and the algorithms required for better movement, accomplishing rotational turns of under 100 microseconds using C++ with the Arduino IDE.
- Fall 2018* QuickCube: Videogame developed by team of 4. Programmed the player using C# to adjust movement and speed required for smooth gameplay. Also assembled all of the levels for one of the three available difficulties of the game using the Unity game engine.
- Fall 2018* Top Teen Programmer: Participated in my first programming contest using C++, needing to expand upon my skillset to successfully land among the top 10.

### RELEVANT COURSES AND SCHOOL SUBJECTS

- "Data Structures and Algorithms in Python" with Udacity
- "Learn Python 2" with Codecademy
- Data Structures (C++), 3<sup>rd</sup> semester (**currently enrolled**)
- Software Engineering Fundamentals, 3<sup>rd</sup> semester (**currently enrolled**)
- Object-Oriented Programming (C++), 2<sup>nd</sup> semester
- Programming Fundamentals (C++), 1<sup>st</sup> semester

### AWARDS AND LEADERSHIP

- Scholarship for Academic Excellence, 2018
- 8<sup>th</sup> place in Top Teen Programmer, 2018
- 5<sup>th</sup> place in TMR – RoboCup Jr Soccer Lightweight, 2019

### ADDITIONAL INFORMATION

- Member of RoBorregos, international robotics team of Tec de Monterrey