

Santiago Quintana Moreno

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EDUCATION

West Vancouver Secondary School <i>High School 10th grade</i>	Vancouver, British Columbia, Canada <i>August 2018 – June 2019</i>
PrepaTec <i>High School 10th to 12th grade</i>	Monterrey, Nuevo Leon, Mexico <i>August 2019 – May 2022</i>
Münchner Volkshochschule <i>German Advanced Language and Skills.</i>	München, Bavaria, Germany <i>January 2023 – March 2023</i>
Tecnologico de Monterrey <i>Bachelor of Science in Computer Science and Technology Engineering (ITC)</i>	Monterrey, Nuevo Leon, Mexico <i>August 2023 – Present</i>

EXPERIENCE

Robotics Mentor <i>PrepaTec Overture 7421, 23550, 23619, 26381</i>	May 2022 – Present <i>Monterrey, Mexico</i>
<ul style="list-style-type: none">• Instruct team members in wiring, electrical, C++, Java, Python, and WPILib, enabling advanced competition robot programming for seamless hardware-software integration.• Educate on data gathering through in-house scouting app development and analysis.• Guide team collaboration across seasons, streamlining tasks and resources for prompt, efficient competition robot design and fabrication. Simultaneously, provided leadership and mentorship during events, cultivating strategic decision-making, teamwork, and adaptability.• Nominated to Wodie Flowers Mentorship award in the Monterrey Regional presented by PrepaTec in 2024.	

PROJECTS

Smart Breathing <i>CAD, Python, Arduino, Github</i>	2022 - 2023
<ul style="list-style-type: none">• Nominated for the "Premio Eugenio Garza Sada" in the category of Best Student Social Innovation Project for the creation and development of "Smart Breathing". Together with my peers, we developed and prototyped two sport-oriented devices designed for pollution detection and alerts. Additionally, we created a breathable mask designed to filter out pollution particles effectively, which also provided assistance during the COVID-19 pandemic.	
ECOCYCLE, Xignux Challenge <i>CAD, Python, Arduino, Github, Notion</i>	2024 - Present
<ul style="list-style-type: none">• Developed a sustainable, replicable plastic shredder and extruder. This machine processes recycled plastic into usable forms, with dual applications: entrepreneurship and social impact. This innovative machine can process recycled plastic into usable forms for different purposes. For social impact, it extrudes plastic sheets designed for constructing walls in low-income housing, providing a cost-effective and eco-friendly building material. On the social entrepreneurship, the machine supports a business focused on creating wall, floor, and ceiling art from recycled plastic, offering an affordable and creative solution to decorate spaces. This approach not only promotes recycling and sustainability but also aims to improve living conditions and encourage artistic expression through the use of recycled materials.	

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, LaTeX
Developer Tools: Git, Github, VS Code, Arduino IDE, Android Studio, JetBrains IDE, Jupyter, MatLab
Libraries: NumPy, Matplotlib, mpltoolkits, mplot3d, Axes3D, WPILib, FTCLib, RoadRunner
General Software: Microsoft Office, GSuite, Notion, Slack
Languages: Spanish (Native), English (C1), German (B2)

SOCIAL SKILLS

Social Skills: Adaptability, Effective Communication y to the point, Decision-Making, Problem-Solving, Teamwork