

Luis Alejandro Rodríguez Arenas

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EDUCATION	Colegio San Carlos, Bachiller Académico GPA: 3.9 Bogotá, Colombia 2017-08-20 2023-07-30	
	Universidad Nacional de Colombia, Undergraduate coursework in Mechatronical Engineering (transferred) GPA: 3.7 Bogotá, Colombia 2023-08-08 2023-12-01	
	Universidad de los Andes, BS in Mechanical Engineering, Minor in Mathematical Computing GPA: 3.7 Bogotá, Colombia 2024-01-20 Currently	
SKILLS	CAD Software:	OnShape, Inventor, Fusion360
	Simulation & Analysis:	ANSYS, OpenRocket, Rocksim
	Programming & Tools:	Python (scientific use), C++, Arduino, MATLAB, Git
	Languages:	Spanish (Native), English (B2), French (B1)
	Team Collaboration:	Project coordination, Student team leadership
	Soft Skills:	Problem-solving, Adaptability, Communication
	Aerospace & Rocketry:	Sounding Rockets, Ion Propulsion
	Research & Development:	Literature review, Prototype development
PROJECTS	Documentation:	LaTeX, Markdown, Technical Writing
	High School Robotics Club & Makerspace, Robotics, Leadership, Makerspace, Education Led the robotics club (10th–11th grade) and co-founded a makerspace at Colegio San Carlos with a 3D printer and tools for student innovation.	
	Ion Thruster Research Project, Ion propulsion, Space research, Propulsion Participated in the early development of an ion propulsion system research project at Universidad de los Andes. Involved in initial design and literature review stages from early 2024 until mid-year.	
	Sounding Rocket Development – SpaceTech Cohetería, Rocketry, Carbon fiber, Mechanical Engineering, Aerospace Currently contributing to the development of a carbon fiber-reinforced sounding rocket as part of the rocketry division of Universidad de los Andes' SpaceTech initiative. Focused on mechanical integration and structural components.	
AWARDS	Participation – OLAA 2020 (Latin American Astronomy Olympiad), OLAA Committee 2020-10-01 Participated in the Latin American Astronomy Olympiad representing Colombia.	
	Participation – IOAA 2022 (International Olympiad on Astronomy and Astrophysics), IOAA Committee 2022-08-15 Represented Colombia in the international event held in Kutaisi, Georgia.	
	Banco de la República Academic Excellence Scholarship, Banco de la República 2023-12-15 Awarded for achieving one of the highest national scores in the Saber 11 exam in 2023.	