

Carlos Alberto Echandi Jara

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Telephone number: +506 83356601* *Place of birth:* SJ, Costa Rica * *Date of birth:* 02-29-2000

Profile

I am a student in mechatronics engineering and physics, disciplined, creative, with leadership abilities. Working in groups is something I enjoy and I am a fast learner. I have abilities with Office, multiple programming languages and CAD programs. I speak Spanish, English and German.

Education

Licentiate's degree in Mechatronics Engineering <i>6th/7th semester from student plan</i>	<i>Instituto Tecnologico de Costa Rica(ITCR)</i> <i>February 2019 - Present</i>
Bachelor's in Physics <i>4th/ 5th semester from the student plan</i>	<i>Universidad de Costa Rica(UCR)</i> <i>February 2019 - Present</i>
High School Diploma <i>Degree with honors</i>	<i>Anglo American School</i> <i>January 2004 - December 2017</i>
Cultural Exchange <i>AFS</i>	<i>Gymnasium Oedeme</i> <i>February 2018 - January 2019</i>

Experience

Wind Energy Research Laboratory(LIENE) <i>Research Assistant</i>	<i>July 2021 - Present</i> <i>ITCR, Cartago, Costa Rica</i>
<ul style="list-style-type: none">• Designing and building a wind turbine for a wind tunnel.• Experience with measuring equipment, wind tunnels and wind turbines.• Giving multiple talks.	
Plasma Laboratory for Fusion Energy and Applications <i>Voluntary Assistant</i>	<i>October 2022 - Present</i> <i>ITCR, Cartago, Costa Rica</i>
<ul style="list-style-type: none">• Helping with plasma discharges.• Working on a plasma simulation of a Langmuir probe (Python).	
Computer Engineering School <i>Special Assistant</i>	<i>October 2022 - Present</i> <i>ITCR, Cartago, Costa Rica</i>
<ul style="list-style-type: none">• Assistance at course "Computation and Society".	

Additional Skills

Languages	Spanish (native), English (Oxford B2), German (Goethe B2).
Programming/Tools	Python, C++, Arduino, LaTeX, SolidWorks, AutoCad, LTSpice, Multi-sim, Verilog, Word, Excel ,Office.
Additional Courses	Plasma Physics and Applications, Dark Matter.

Hobbies

Volleyball	National Games with Curridabat (2015 and 2016), University Games with TEC (Bronze, 2019), University Ligue with TEC (Silver, 2022), Pre-national Selection Sub 19 (2016 and 2017).
Music	Intermediate Clarinet Student at National Music Institute (2009-2017), Elementary Symphonic Band (2013-2015), Elementary Orchestra (2015), Intermediate Symphonic Band (2016-2017).

Portfolio of most relevant projects

Nitinol Robot	https://www.youtube.com/watch?v=yYdHYMTGD4Q
Wind Turbine	https://www.youtube.com/shorts/qVg0khGBUD0
Automatic Turret	https://youtube.com/shorts/RLF0f_nnFL4
Wind Energy talk	https://www.youtube.com/watch?v=U0CQrVIugeg