

## **Ricardo Leduc Almaraz**

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Hardworking and passionate mechatronics engineer, oriented towards robotics and related fields. Enthusiastic about shaping ideas into reality using CAD, programming, and similar tools. Team leader, always determined to find innovative and creative solutions.

### **EDUCATION**

<b>University of California Berkeley</b> , Berkeley, CA	—Aug 2021 - May 2022
Study abroad year focused on mechanical engineering	
<b>Tecnológico de Monterrey (ITESM)</b> , Mexico City, Mexico	—Degree Expected May 2023
Bachelor of Science, Mechatronics Engineering	
<b>Mercersburg Academy</b> , Mercersburg, PA	—Aug 2015 - May 2016
Study abroad year in high school	
<b>The American School Foundation A.C.</b> , Mexico City, Mexico	—Aug 2014 - May 2018
High School Diploma, IB SL Spanish Certificate, IB SL English Certificate	

### **RELATED PROFESSIONAL & ACADEMIC EXPERIENCE**

<b>Territory Sales Engineer</b> , Cognex Corporation	—Jul 2023 - Present
<ul style="list-style-type: none"><li>Technical Sales Specialist for machine vision systems in Coahuila territory, responsible for a wide range of pre and post-sales activities. Daily tasks encompass client interactions, negotiation, debugging, and CRM management. Instrumental in automating clients' industrial processes through technical consultations on machine vision. Additionally, tasked with managing distributors, acquiring new customers, and nurturing strong relationships with existing clients.</li></ul>	
<b>Group Project</b> , Mechatronics Design (ITESM)	—Aug 2022 - Dec 2022
<ul style="list-style-type: none"><li>Created as a final project for a Mechatronics Design course at Tecnológico de Monterrey, GardenBot's goal was to function as a drought-tolerant watering system while also being autonomous. The prototype, inspired by the Roomba, is a rover-style robot that drives around watering your garden automatically. In charge of the day to day tasks as well as the mechanical and electronic aspects. Helped structure the team through QFD, FMEA, among other processes.</li></ul>	
<b>Group Project</b> , MECENG 102B (Berkeley, CA)	—Jan 2022 - May 2022
<ul style="list-style-type: none"><li>Winner of the ASME Makers Grant Social Impact Award. Semester project, assigned with designing and creating a mechatronic project with a unique mechanical component, coding, and electrical aspects. The project is a distance sensor for the visually impaired using ultrasonic sensors and brush motors.</li></ul>	
<b>Mentee</b> , ULAB (Berkeley, CA)	—Aug 2021 - May 2022
<ul style="list-style-type: none"><li>Undergraduate-led research lab focused on astrophysics. Developed a pipeline using python to generate radial velocity curves in order to read raw data in the identification of binary systems and exoplanets.</li></ul>	
<b>Group Project</b> , Manufacturing Technologies (ITESM)	—July 2021 - Aug 2021
<ul style="list-style-type: none"><li>Final project, tasked with creating a virtual CNC milling machine. In charge of the electrical/programming part using arduino, Fusion 360, and Proteus.</li></ul>	
<b>Technology Assistant</b> , THEOS (Mexico City, Mexico)	—Aug 2019 - Jan 2020
<ul style="list-style-type: none"><li>Helped develop a Learning Management System (LMS) at a national level to optimize the field work of technicians. Continued with the implementation of a digital signature in the company's internal processes. Additionally, helped create a change in the culture of THEOS employees.</li></ul>	

### **LEADERSHIP EXPERIENCE**

<b>SAIMT</b> , Vice president	—Aug 2019 - Dec 2020
<ul style="list-style-type: none"><li>Vice president for the Mechatronics Engineering student government. In charge of organizing and leading projects focused on student's mental health, networking, and Mechatronics related events.</li></ul>	
<b>Astronomy Club</b> , President/Founder	—Aug 2017 - Jun 2018
<ul style="list-style-type: none"><li>Supervise and carry out the logistics to organize informative spaces to spread interest in astronomy. The club started with over 20 students throughout the school year and is still active today.</li></ul>	

### **SKILLS & CERTIFICATIONS**

- Fluent in Spanish and English
- CSWA certified (Mechanical Design SolidWorks)
- Experienced with programming languages and softwares such as HTML, Javascript, CSS, Python, NX, and MATLAB