

Penélope Cerón Castillo

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PROFILE

I'm a Mechatronics Engineering graduate with a focus on software engineering. My commitment to interdisciplinary problem-solving has led me to develop ambitious projects in the fields of autonomous vehicles and biotech. My experiences have provided me with a unique and valuable multicultural perspective. I'm eager to enhance my AI proficiency and drive socially and environmentally impactful innovations.

EXPERIENCE

Aug 2021 - Jan 2022	Research Intern, Shrike Zhang Lab (Harvard University)	USA
	<ul style="list-style-type: none">Led a team of engineers through the design and construction of a DLP 3D bio-printerDesigned, modeled and prototyped parts for the entirety of the printer using SolidworksDeveloped Python algorithms for experimental parameter testingUtilized Arduino to synchronize the user interface with the printer's hardwareSourced robust and cost effective materialsCoordinated an engineering team and ensured effective communication with the biomedical research teamConducted extensive literature reviews to incorporate relevant findingsAchievement: 1 publication in the Applied Physics Reviews journal	

PROJECTS & VOLUNTEER WORK

Aug 2022 - Dec 2022	Nutrello - Student led project to reduce food waste and hunger	Mexico
	<ul style="list-style-type: none">The project focused on developing and implementing a system to distribute surplus food from restaurants and supermarkets to people in need within the Monterrey metropolitan area.As a member, I aided in the logistic development of the project, secured restaurant partnerships and helped make a preliminary design for the app.	
Feb 2019 - June 2020	Autonomous vehicles student group member	Mexico
	<ul style="list-style-type: none">Collaborated in autonomous vehicles (UUV & USV) research projectsUtilized ROS, Linux and Git in navigation control and computer visionPerformed object oriented programming in C++ and Python	
Aug 2019 - Nov 2019	Volunteer English Teacher	Mexico
	<ul style="list-style-type: none">Helped future elementary school teachers improve their reading, writing, speaking and listening skills through dynamic and engaging weekly lessons	

EDUCATION

Jan 2018 - Feb 2024	Honors Bachelor of Mechatronics Engineering, Tecnológico de Monterrey	Mexico
	<ul style="list-style-type: none">GPA 96%, <i>summa cum laude</i>	
Feb 2023 - June 2023	Certificate of proficiency in Exchange, The University of Auckland	New Zealand
	<ul style="list-style-type: none">GPA 4.0 = 98%	

LANGUAGES

- English: C1 - TOEFL IBT score 112
- French: B2
- Spanish: Native

SKILLS

- PROGRAMMING: Python, C++, HTML, SQL, SOFTWARE: Solidworks, Matlab, SwiftUI, Labview
- COLLABORATIVE: GrabCAD, Git