

# Cristian Robles, Computer Engineering Student

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## OBJECTIVE

Set to graduate in December 2023 with a degree in Computer Engineering, actively pursuing full-time opportunities in Embedded Systems or Robotics. For an in-depth look at my projects and coursework at CSUN please visit my website linked above.

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## EDUCATION

Aug 2018 — Dec 2023	<b>Computer Engineering, California State University, Northridge</b>	Northridge
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## COURSES

Robotics and Embedded Systems, FPGA/ASIC Design, Linear Systems, Digital Systems, Digital Electronics, Microprocessor Systems, Computer Architecture, System on Chip Design, Probability, Data Structures, Differential Equations, Linear Algebra, Physics, Calculus

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## SKILLS

C, C++, ROS, Git, RTOS, SPI, I2C, CAN, VHDL, FPGA Programming, Matlab, Simulink, Linux, Solidworks CAD, 3D Printing, HTML, CSS, Leadership, Teamwork, Fluent in Spanish

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## WORK EXPERIENCE

Jun 2016 — Aug 2016	<b>Research, Caltech</b>	Pasadena
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- Collaborated on two astronomy research projects led by Dr. Evan Kirby.
- Employed Python to analyze star spectra, enabling the identification of the chemical composition of a star. Utilized IDL to investigate and compare the metallicity of solitary galaxies with galaxies in clusters.

Sep 2020 — Present	<b>Delivery Driver, Doordash</b>	Pasadena
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- Maintained a 4.91-star rating and 100% completion rate as a delivery driver with over 600 deliveries.

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## EXTRACURRICULAR ACTIVITIES

Aug 2019 — May 2023	<b>Team Lead, CSUN Vex Robotics</b>	Northridge
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- Provided leadership for the development of robots utilized in the VEX U Robotics Competition.
- CAD modeled and manufactured multiple mechanical subsystems for competition robots.
- Programmed autonomous robots in C++ using algorithms such as PID, Pure Pursuit, and Odometry.
- Oversaw project timelines across multiple competition seasons, ensuring readiness for events.
- Instructed individuals of diverse skill levels in both mechanical and programming aspects of VEX robotics.

Aug 2020 — May 2021	<b>Treasurer, CSUN Vex Robotics</b>	Northridge
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- Managed club finances, ensuring accurate record-keeping and financial stability.
- Acted as the team representative in school budget meetings, effectively communicating the team's needs and advocating for necessary resources.

Aug 2021 — May 2022	<b>President, CSUN Vex Robotics</b>	Northridge
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- Successfully managed the club during the transition period as school resumed in-person activities following the COVID lockdown.
- Provided guidance and mentorship to a team primarily composed of new members, facilitating their integration into the world of robotics.

Jan 2023 — Present	<b>Systems Subteam Member, CleanBot 3000 (Senior Project)</b>	Northridge
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- Utilizing ROS for the automation of a sanitization robot in NASA's Jet Propulsion Laboratory clean room, incorporating SLAM, odometry, serial communication protocols, PID control, and path planning algorithms for enhanced functionality.
- Engineered and fabricated sensor mounts and other mechanical components for the CleanBot project, contributing to its overall design and operational efficiency.