

Sebastian Villa Cuellar



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OBJECTIVE

Seeking Full-Time Opportunities in Dynamic Robotics Applications and Interdisciplinary Engineering

EDUCATION

Texas A&M University, College Station, Texas

May 2023

Bachelor of Science in Interdisciplinary Engineering - Robotics Focus

GPA: 3.93

- Graduated with **Engineering Honors** and **Summa Cum Laude**
- Major ITDE Coursework: ME, EE, CS, and MXET
- Minors in Control of Mechanical Systems and Electrical Engineering

WORK EXPERIENCE

Beckhoff Automation LLC, Savage, Minnesota

Jun 2022 - Present

Associate Application Engineer, Los Angeles, CA, Jan 2024 - Present

- Supporting customers Pre- and Post-Sales with controls solutions and expertise

Talent Development Associate, Savage, MN, Jun 2023 - Dec 2023

- 1 of 6 engineers in pilot Sales Team Rotation Program across the USA

Industrial Automation Engineering Internship, Houston, TX, Jun 2022 - Aug 2022

- Shadowing Sales, Application, and Training Engineers implementing **TwinCAT** and Beckhoff Hardware with over **20** customer applications
- Engaged with the Development of a Process Library with Beckhoff Germany

RELEVANT EXPERIENCE

TAMU RoboMasters, Texas A&M University

Jan 2020 - May 2023

Embedded Systems Team, Aug 2021 - May 2023

- Build and maintaining codebases for all robots with **C++** using Git & VS LiveShare

Standard Robot Design and Fabrication Team, Jan 2020 - Jan 2022

- Full **CAD** modeling and Fabrication with SolidWorks and OnShape for International intercollegiate competitions

SELECTED LEADERSHIP

TAMU InterDisciplinary Engineering Association (IDEA)

Sep 2021 - Present

Co-Vice President & Founding Member, Sep 2021 - May 2023

- Established a professional society for Interdisciplinary Engineers at Texas A&M

ITDE Student Ambassador, Oct 2021 - Present

- Student Role model for the ITDE Major and MTDE Department
- Actively offer insight and guidance to interested Transfer and Freshman Students

CISV International - cisv.org

Jun 2012 - Present

Treasurer, DFW Chapter, Jul 2017 - Jun 2019

- Oversaw funds and merchandise for local activities with about \$600 per event
- Managed legal paperwork preventing potential international-scale **lawsuits**

Seminar DFW/USA Chapter Delegate, San Salvador, El Salvador, Jul 2019

- Discussing changing world conditions and solutions to controversial issues

FRC Robotics - Team 5417 Eagle Robotics, Allen High School

Aug 2015 - Jun 2019

FIRST Worlds Expositions: Public Presenter, Houston, TX, Apr 2019

- Led a 45 min **interactive** presentation on Expanding Community & Innovative Outreach for Robotics Teams

HONORS AND EXPERIENCE

Dean's Honor Award, Texas A&M University College of Engineering

Fall 2020 - May 2023

- Semester Recognition for Outstanding Academic Achievement in 15 credit hours

CollegeBoard's National Merit Hispanic Scholar

Sep 2018

- Awarded a **\$14k** scholarship based on GPA and PSAT score, \$1750 per semester

SKILLS QUALITIES & INTERESTS

Qualities: Eager to Learn, Dedicated, Seeks Additional Responsibilities, Team Player

Skills: TwinCAT, SolidWorks, C/C++, Python, ROS, Julia, MATLAB, Simulink, HTML, Github, StucturedText, Microsoft Dynamics, LaTeX, Microsoft Office, Adobe Fireworks, KiCAD, AutoCAD, LabVIEW, Multisim, Keil, Verilog HDL, Carla

Bilingual: Fluent In English and Spanish

Interests: Robotics, Swing Dancing, Rock Climbing, Cello, The Cosmere, UI/UX Design

COMMUNITY SERVICE

Volunteering

Self-Directed Peer Tutoring, 2013 - Present

Robotics Referee volunteering, RoboMasters and FIRST Robotics

Underprivileged Community Assistance