

TOMAS GARCIA

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Objective

Highly self-motivated dual degree graduating Mechanical Engineering student looking to incorporate my problem-solving skills learned from school and apply them to a team environment, while keeping a company's integrity and quality standards.

Education

The University of Texas at San Antonio (UTSA)

B.S Mechanical Engineering May 2020

Projects

Senior Design Project – Team Lead (currently in progress)

- Developed an automated system that will remove, clean, and replace damaged screen protectors for smart devices.
- Kept team moral high and on task while assisting each member when needed.
- Communicated efficiently with team members, professors, manufactures, and sponsor on progress of the project ultimately resulting in a winning project at UTSA's Tech-Symposium.
- Ensured that project met specifications, Key Result Areas, while keeping the team on budget and schedule.
- Presented to class members and professors on projects progress and gave solutions to questions on the project.
- Designed custom components and dimensioned them individually for fabrication in SolidWorks.
- Assisted in the manufacturing of the shell, moving components, and programming of the overall system.

Mechatronics – Programing, Manufacturing

- Developed and programmed a working robotic hand that was able to perform the task of rock, paper, scissors, gripping a bottle using a motion sensor, and count from one to five using specific buttons on command.
- Created a product that was functional and was able to be manufactured for an economical cost.

Machine Element Design – MATLAB

- Team Lead on a Cramping tool stress analysis project. Me and my team created a unique cramping tool, while running simulations on SolidWorks, and verifying the results with handwritten work.

Work Experience

Shaver Auto Parts, Houston, Texas

Sales Associate May – August 2017

- Found innovative ways for clients to experience higher levels of customer service and supply them with specific paint shades and colors.
- Collected data from competitors and helped to enhance weaknesses and promote strengths.
- Engaged in daily hospitality via phone calls and interoffice communications.
- Entered and monitor new and current customer accounts.
- Prepared daily cash sheets and transfer logs.

Schreiner University, Kerrville, Texas

Statistics for Sports October 2016 – January 2018

- Organized sporting statistics using excel for basketball, soccer, and volleyball.
- Prepared and maintained spreadsheets, preformed data entry and issued reports.
- Trained and mentored new hires on workplace policy.

Schreiner University, Kerrville, Texas

Academic Mentor July 2016 – May 2017

- Organized sporting statistics using excel for basketball, soccer, and volleyball.
- Prepared and maintained spreadsheets, preformed data entry and issued reports.
- Trained and mentored new hires on workplace policy.

Select League Baseball

Summers 2012, 2013, 2014 and 2015

- Worked with coaches and teammates to develop baseball and interaction skills.

Greater Houston Pool Management, Houston

Lifeguard June 2011 to August 2011

- Trained and mentored new hires on workplace policy and daily function. CPR certified.

Skills

Fluent in Spanish oral and Written, Strong communication skills, Strong leadership skills, Microsoft office, Microsoft Project, Microsoft teams, AutoCAD, SOLIDWORKS, ARDUINO, LabVIEW, MATLAB, Public Speaking, OSHA knowledge, Safety, project scheduling, cost control, Self-Driven, Detail Oriented , Budget Management.

AWARDS AND HONORS

- **Academic Honor Roll** Fall 2015- Spring 2016
- **National Honor Society** Fall 2015- Spring 2016
- **Project lead Senior design** Fall 2019- Present

ACTIVITIES

- **American Society of Mechanical Engineers (ASME)** January 2017 – Present
- **National Society of Black Engineers** January 2019 – Present
- **American Society of Heating, Refrigeration, and Air-Conditioning Engineers**
Recruitment chair Fall 2019 – Present
- **Schreiner University, Baseball Scholarship** July 2015 - May 2017