

# Kevin Muy-Trejo

8611 Sunny Gallop Dr., Tomball, TX 77375 • (707) 344-3769 • [kamt007@yahoo.com](mailto:kamt007@yahoo.com)

## OBJECTIVE

---

Career driven student seeking a mechanical engineering position with an opportunity to implement current knowledge, skills and abilities to effectively contribute to a thriving engineering firm.

## EDUCATION

---

The University of Texas at San Antonio (UTSA) May 2020  
**Bachelor of Science in Mechanical Engineering** GPA: 3.22

### Relevant Coursework

- Dynamic Systems and Controls
- Engineering Practice and Graphics: Solidworks
- Thermodynamics I, II
- Fluid Mechanics
- Finite Element Analysis
- Machine Element Design

## WORK EXPERIENCE

---

*Thomas Rivera Center*, May 2019 – Present

*University of Texas at San Antonio –Math, Engineering, Physics Tutor*

- Guided students to becoming independent learners through STEM based courses including Newtonian Physics, Calculus, Statics, Dynamics, Circuits, and Engineering Analysis.

*Yates Co.*, May 2019 – August 2019

*San Antonio, TX – Controls Technician Intern (HVAC)*

- Designed, edited and programmed code capable of controlling hardware in order to meet customer's building standards.
- Conducted troubleshooting process on hands-on issues regarding hardware, some of which include rooftop units, chillers, boilers, variable air volume dampers and Innotech branded controllers.
- Completed maintenance at various sites ranging from public education to food distributional centers.

## ACTIVITIES

---

*American Society of Heating Refrigeration and Air-Conditioning Engineers (ASHRAE)*, January 2018 – Present

- Social Media Director of UTSA student chapter, *January 2018 – August 2019*
- Freshman Outreach Chair of UTSA student chapter, *February 2020 – Present*
- Coordinate tours of local HVAC facilities and host Professionals at club's general meetings.

## ADDITIONAL SKILLS

---

- Technological: MatLab, ANSYS, Simulink, Arduino, SolidWorks, Interactive Thermodynamics, Microsoft Office (Word, Excel, Project, etc.)
- Productive as member of a team
- Bilingual: Fluent in Spanish
- Strong written and verbal communication skills

## PROJECTS

---

*Gear Box Design*, Fall 2018

- Designed a two-stage speed reducer that takes 56 hp from the shaft of an electric motor rotating at 1200 rpm and, delivered it to a machine operating at 155rpm.
- Derived efficient codes for various devices, such as gears and shafts, in order to meet required safety factors. In addition, those codes were capable of repeatedly producing required dimensions with different inputs.
- Utilized Solidworks to assemble physical motions of gears and shafts.
- Acquired knowledge on vendors and how to successfully incorporate them for specific required components.

*Mechatronic Hand*, Spring 2019

- Designed a mechatronic hand capable of performing three tasks including: playing rock paper scissors, doing a thumbs up motion, and being able to hold a cup.
- Learned and wrote Arduino code for each task as well as the hardware setups using various types of sensors.

*Metal Injection Molding Magazine Redesign*, Fall 2019–Present

- Controlled hazardous fluid inlet/outlet in a vacuumed environment in order to minimize parts displacement during a de-binding process.
- Redesigned metal transportation fixture to minimize warping as a result of thermal creep and operator mishandling.
- Design maintained within sponsor's budget, design and safety specifications.