

Vicente Gutierrez III

UTSA Mechanical Engineering Student

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TECHNICAL SKILLS

- SOLIDWORKS Modeling, Flow Simulation, FEA Modeling
- REFPROP and Interactive Thermodynamics
- AUTODESK: AutoCAD, Fusion 360
- MATLAB
- Arduino and LabVIEW
- Microsoft Office: Project, Excel, Word, PowerPoint
- TIG and MIG Welding, and Machining

INTERPERSONAL & COMPLEMENTARY SKILLS

- Able to communicate and work effectively within group or individually
- Able to coordinate and lead group projects
- Able to receive constructive criticism to improve the groups productivity
- Effective written and verbal communication skills
- Accuracy and high attention to detail
- Organization and prioritization skills
- Time management
- Tolerant and flexible, able to adjust to different situations

EDUCATION

UNIVERSITY OF TEXAS AT SAN ANTONIO

GPA: 3.62

San Antonio, TX

B.S. Mechanical Engineering

(Expected graduation May 2020)

Relevant Coursework

- Thermodynamics
- Heat Transfer
- Fluid Mechanics
- Dynamic Systems and Controls

Concentration-Energy, Thermal and Fluid Systems

- Thermal System Design
- Internal Combustion Engines
- Compressible Flow and Propulsion Systems

Awards & Honors

- STARS Scholarship Fund Recipient (2016-2020)
- President's List, Dean's List, Honor Roll

Extracurricular Activities

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Organization Representative Officer for ESC (2018-2020)
- UTSA Engineering Student Council (ESC), Extracurricular Activities Representative Officer (2017-2020)
- Society of American Military Engineers (SAME), Board College of Engineering Liaison Officer (2018-2020)
- American Society of Mechanical Engineers (ASME), Member (2017-2020)

CAREER OBJECTIVE

Senior Mechanical Engineering student seeking a full-time opportunity in the heating, ventilation, and cooling (HVAC) industry

EXPERIENCE

4-RIX'S SENIOR DESIGN TEAM

Team Co-Lead

Budget and Financial Lead, Technical Documentation Lead, Drawing Co-Lead, Fabrication Co-Lead

Sourced Funding Through Renhill

Senior Design Team, San Antonio, TX/ Aug 2019-Present

- Conducted efficiency, design analysis, and material selection for an electronic concrete dispenser for wind turbine concrete foundations
- Conducted structural analysis for various component designs and supporting equipment for the electronic concrete dispenser
- Modeled and constructed different components for the concrete dispenser design and simulated FEA analysis
- Managed the team's budget and schedule of values (SOV), and work breakdown schedule (WBS)
- Implemented and oversaw the Gantt chart and the earn value graphs that included the calculated schedule performance index (SPI), cost performance index (CPI), and cost schedule performance index (CSI)
- Completed a formal drawing package and fabrication drawing package
- Formulated design reports that included specifications, test plans, theory of operation and user manual, test report, and final design report

THERMAL AND FLUIDS LABORATORY

UTSA, San Antonio, TX/ Aug 2019- Dec 2019

- Performed five experiments within a team setting that explored the real-world effects that occur in different applications that included the testing of airfoils, heat exchangers, frictions in different pipe networks, two-stage pumps, and free and forced convection of different types of surfaces
- Completed formal laboratory reports for each experiment that included a detailed experimental, theoretical, simulation, and error analysis

LICENSES AND CERTIFICATIONS

Autodesk Certified User (ACU) – AutoCAD

REFERENCES

Michelle Longsworth

Control Engineer

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