

# ANSALMA V. RODRIGUEZ

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## EDUCATION

### The University of Texas at Austin

August 2026

#### *Bachelor of Science, Mechanical Engineering*

- GPA of 3.61
- Relevant Coursework: Rocket Engineering Practicum, Mechanical Theory/Design for Sensing/Measurements
- Built fluid ball valve to minimize leak failures of 3D printed material

## WORK EXPERIENCE

### Micron Technology, Boise, ID

May 2025 – August 2025

#### *AMHS Equipment Engineer Intern*

- Implemented hardware changes to look forward sensors, speeds, and pre-cradle mod for 200 vehicles in the overhead hoist transport (OHT) system
- Decreased delivery times in Fab 4 and saved ~\$340,00 in vehicle efficiency gains
- Utilized AutoCad to push out changes in maps and created business procedures for changes

### GE Appliances, Louisville, KY

August 2024- December 2024

#### *Product Quality Engineer Co-op*

- Performed autopsies on units to determine root cause of failure and documented findings
- Utilized data analytics to determine failure trends in ~10,000 service calls
- Implemented standardized work and quality changes in assembly line for collaborative project

### Southwest Research Institute, San Antonio, TX

June 2024 – August 2024

#### *Electromechanical Intern*

- Designed and rapidly prototyped electromechanical system to control DaVinci Surgical Tool instrument
- Designed button enclosure and microcontroller enclosures for commercial and military applications

### Semiconductor Research Corporation Undergraduate Program, Austin, TX

August 2023 – May 2024

#### *Intel Research Scholar*

- Produced 50+ beam samples through physical vapor deposition to characterize mechanical failure
- Received basic training in photolithography and SEM, and consistently worked in cleanroom

## LEADERSHIP

### GE Appliances

September 2024 – December 2024

#### *Professional Development Co-chair*

- Executed co-op professional development events through internal workshops and tours for 20-30 participants per event
- Organized photoshoot opportunities for 90 co-ops to receive headshots

### Society of Hispanic Professional Engineers (SHPE)

#### *External Liaison Co-chair*

June 2025 – present

- Will be executing Road to Convention Workshop series for 50+ UT SHPE members

#### *Communication Liaison*

June 2024 – May 2025

- Increased engagement by 10% on UT Austin SHPE LinkedIn account with 500+ followers
- Monitored communications with 20-30 sponsoring companies

#### *Community Co-chair*

May 2023 – May 2024

- Planned volunteering and community service opportunities for 10-20 members in SHPE UT Austin
- Collaborated with National Society of Black Engineers and Pi Sigma Pi in community engagement

## SKILLS

**Technical:** Python, MATLAB, SQL, Tableau, Arduino, SolidWorks, Fusion360, Excel, Rapid Prototyping, Soldering, Laser Cutting, Electronic Wiring, GD&T, Standardized Work, Problem Solving