

# Juanluis Robles

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## Objective:

Mechanical engineering major seeking a challenging internship or co-op where my experience in manufacturing, design, robotics, and autonomous vehicles can be of value.

## Education:

Prairie View A&M University Expected Graduation: Spring 2022  
Bachelors of Science in Mechanical Engineering GPA: 2.94  
Minor in Supply Chain Management

## Work Experience:

Cyber Security Department, Prairie View A&M University February 2020 - Current  
Vertically Integrated Project Research

- Learn about cyber security and how to use/defend against it.
- Hacking into an autonomous vehicle to determine and improve the security of the system.

Cybersecurity Committee Mentor December 2020 - Current

- Peer mentor for NON-STEM majors
  - Guide students in learning the field of cybersecurity.

LB Pipe & Coupling Products, LLC. July 2014 - June 2016

CNC Machine Operator

- Studied design prints, work instructions, dimensional drawings and manuals to determine dimensions and tolerances for machining of threads for oil, gas and water industries.
- Worked with an ABB robotic arm with SVIA cell automation program to process the insertion and removal parts for lathe CNC operators.
- Operated Okuma 2-axis lathes to bore and thread couplings with 15/1000" accuracy.
- Completed comprehensive company safety training.

## Extracurricular Projects:

- Autonomous Underwater Vehicle (AUV) Fall 2018 - Current
  - Completed tasks, such as gyroscope, fabrication and assembly.
  - Lead in the fabrication, torpedo system and design, 3D printing, assembly processes and research for part builds.
  - Worked on the CAD modeling of parts, waterproofing and systems testing.
  - Managed to stay under the first year budget of \$3,500 by using in house resources spending a total of under \$2000.

## Leadership Roles:

- Hermanos Unidos Multicultural Mentoring Program (H.U.M.M.P.) Spring 2020 - Current
  - President Chair: Fall 2020 - Current
    - In charge of recruiting new members for program growth while pairing peer mentors to mentees and searching to fill Executive Board positions.
- Society of Hispanic Professional Engineers (SHPE) Fall 2018 - Current
  - Treasurer Chair: Fall 2020 - Current
    - Managed budgets for the organization and our events.
  - SHPE Jr. Chapter Representative Chair: Fall 2019 - Spring 2020
    - Currently reaching out to local high schools to establish Jr. chapter to encourage students to pursue a career in engineering.
  - Dando Una Mano Programa Mentor: Fall 2019 - Current
    - Peer mentor to student mentees.
  - Secretary Chair Assistant: Fall 2018 - Spring 2019
    - Did the writing of organizations official meeting minutes and weekly tasks.

## Skills:

- CAD: Siemens NX 10.0
- Manufacturing: Welding, Forklift Operator, CNC Machining, 3D Printing, Fabrication, Soldering
- Proficient in Spanish (written and oral)