VALERIA HEREDIA

Aspiring Software Engineer

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EDUCATION

B.S. in Computer Engineering
Texas A&M University   📍 College Station, TX   📅 Aug 2019 - May 2023
- Minor in Computer Science
- Minor in Electrical Engineering
- Current Sophomore / GPA: 3.66

EXPERIENCE

Software Engineering Intern
VEX Robotics   📍 Greenville, TX   📅 Jun 2018 - Aug 2018
- Developed GUI Software Tool for developers, using C#
- Auto port detection and port disconnect
- Intellisense for quicker debugging while testing special functions
- Built in terminal to let developers only have to use one tool
- Worked extensively in C++/C#/Visual Basic

Robotics Intern
NASA JSC   📍 Clearlake, TX   📅 Jun 2019 - Aug 2019
- Developed software for a robotic spider, mimicking spider like movement to investigate potential threats to police/military personnel
- Linux development
- Worked in C/C++

PROFESSIONAL ORGANIZATIONS AND ACTIVITIES

Lead Programmer
FIRST Robotics Competition Team 624   📍 Katy, TX   📅 Sept 2015 - May 2019
- Taught LabVIEW programming to over 400 students in KatyISD during fall semester courses
- Developed software for cross-subsystem automation using sensors, closed-loop PID, and state machines
- Created LabVIEW software for auto-balancing using closed-loop PID and gyro sensors
- Worked with accelerometers, LIDAR, Vision tracking, Serial communication, UDP & TCP Communication

Texas A&M RI3D Team Week 6
📍 College Station, TX   📅 Aug 2019 - Present
- Assembled an electronics system for 120lb robot with time constraint of three days

HONORS AND AWARDS

- Houston Live Stock Show and Rodeo Scholar
- National Hispanic Merit Scholar

PROGRAMMING SKILLS

LabVIEW ●●●●○
C++ ●●●●○
C ●●●○○
C# ●●●○○
Python ●●●○○
HTML/CSS ●●●○○
Java ●●○○○
Javascript ●●○○○

TECHNICAL SKILLS

UI Development   Git   VSCode   UNIX   Visual Studio   Xilinx SDK   Ubuntu   Windows   PID/PIDF   Eclipse   PyCharm   GitExtensions   Microsoft Office

REFERENCES

- Available upon request