Leonel Pena

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Objective

To be admitted by a prestigious university to become a computer scientist that will make an impact on the world, such as autonomous navigation and motion planning.

Education

University of Texas Rio Grande Valley, Edinburg, TX
> Bachelors of Computer Science
> Expected: May 2019

South Texas College, McAllen, TX
> Associate of Computer Science
> Received: May 2017 – Summa Cum Laude

Thelma R. Salinas STEM Early College High School, La Joya, TX
> High School Diploma
> Received: May 2017
> Rank: 11/74
> Highest ACT Score: 31 Composite

Experience/Community Service

Sponsor: Andy Medina

Assistant/Volunteer --- Summer 2014

- We were tasked with the responsibility to teach students how to design, build and program Lego Mindstorms robotics kits to navigate mazes and pick up objects.

Sponsor: Dr. Nancy Amato – Unocal Professor

Summer Intern --- Summer 2016

- Worked at Texas A&M over the summer helping PhD student, Saurabh Mishra, with his main project.
- We worked on researching better ways to accomplish Autonomous Assembly using Visual Recognition.
- This means that we had a robot autonomously assemble the Texas A&M logo out of broken up pieces using QR-like barcodes on the boxes and walls to help it navigate the environment.
- Created centering technique to maneuver pieces of the logo precisely

Skills & Abilities

- Programming knowledge in: C++, Java, Scratch, HTML
- Knowledge in using Linux Terminal
- Advanced skills in Microsoft Office
- Skilled in both Spanish and English.
- Knowledge in SolidWorks 2014

Extracurricular Activities

- Robotics Club -- (2013-2016)
- Computer Science UIL --- (2013-2017)
- National Honor Society Member -- (2014-2017)
- HESTEC Robotics -- (2011-2013)

Accomplishments

- Co-Authored "Towards Autonomous Navigation and Assembly using Visual Recognition" ----- (2016)
- National Honor Society Historian --- (2016-2017)
- President's Honor Roll for South Texas College --(2017)