**Sidney M. Velado**

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**EDUCATION**

**Carnegie Mellon University,** Pittsburgh PA

Bachelor of Science in Mechanical Engineering & Bachelor of Science in Robotics

GPA: 2.7/4.0

**EXPERIENCE**

**Robotics Institute Biorobotics Laboratory,** Carnegie Mellon University**,** Pittsburgh PA**,** Summer 2018

**Robotics Engineer**

* Designed different mechanical components in CAD for a wide array of projects
* Machined, 3D printed, and laser cut designed components and integrated them into robotic systems
* Programmed in a Linux Environment (Ubuntu)
* Coded in a C++/C and Python and implemented them in a ROS framework

**PROJECTS**

**ODrive ROS Package, ODrive Robotics,** Summer 2018 - Present

* Contributed to the ODrive Robotics Documentation
* Developed ROS package for the ODrive motor controller
* Collaborated with other programmers to test and deploy ODrive ROS package

**Urban Search and Rescue Robot,** Carnegie Mellon Robotics Competition, March 2018

* Built a robot with the Lego Mindstorms kit, custom acrylic, and 3D printed components
* Programmed controls and teleoperation in Robot C framework

**G.O.A.T Mechanical Robot,** Fall 2017

* Created a three-bar linkage mechanical robot modeled after a goat
* Used a combination of CAD modeling and rapid manufacturing techniques to test prototypes and final design

**RELEVANT COURSES**

Robot Kinematics and Dynamics Principles of Imperative Computation Dynamic Systems

Mobile Robot Development Computer Vision (Spring 2019) Machine Learning (Spring 2019)

**LEADERSHIP AND EXTRACURRICULARS**

**Society of Hispanic Professional Engineers,** Fall 2015

* General Body Member

**Internal Outreach Chair, Spanish and Latin Student Association**

* Recruited incoming students to the organization and improved membership by 30%
* Ran multiple events to attract students to the organization
* Organized forums for students to be able discuss the LatinX experience at Carnegie Mellon

**Phi Delta Theta Social Chair**

* Planned a formal dinner for 150 people with at a popular Pittsburgh Venue
* Led a committee to organize and plan all social functions
* Managed a $14,000 budget

**CMU Club Lacrosse Vice President**

* Set up transportation to games
* Ran the club’s finances in cooperation with the university

**SKILLS**

**Programming:** ROS, C++, MATLAB, Python, C, Development in Linux, Git

**Engineering:** SolidWorks, CNC Machining, 3D Printing, FEA Simulation

**Spoken Languages:** Fluent in Spanish; Conversant in French