

SIDNEY M. VELADO

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EDUCATION

2015 – PRESENT

CARNEGIE MELLON UNIVERSITY BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING AND ROBOTICS

- Senior
- GPA: 2.7/3.0
- U.S Citizen
- Expected Graduation: 2020
- English and Spanish: Fluent

EXPERIENCE

MAY 2018 – AUGUST 2018

ROBOTICS ENGINEER BIOROBOTICS LABORATORY, THE ROBOTICS INSTITUTE

- Modeled custom hardware components in CAD and machined components
- Wrote codebase for multiple projects in C++, C, and Python in a ROS system
- Researched and developed a bipedal robot that used an inertial wheel for balance

MARCH 2018 – APRIL 2018

URBAN SEARCH AND RESCUE ROBOT 16-311 PROJECT, CARNEGIE MELLON

- Built robot with custom acrylic and 3D printed components
- Programmed main controls and navigation features in C framework
- Lead our team to the second round of the final competition

OCTOBER 2015 – DECEMBER 2015

DRAWING WORLD 15-112 FINAL PROJECT, CARNEGIE MELLON

- Made a basic graphics/painting utility application in Python
- Implemented voice commands, OpenCV and a basic machine learning algorithm

SKILLS

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|-----------|------------------------------------|----------------------------|
| • Python | • CAD: Solidworks, FEA Simulations | • 3D Printing |
| • C / C++ | • CNC Machining | • ROS Development in Linux |
| • ROS | • Robot Development in Linux | • Public Speaking |

EXTRACURRICULAR

- | | |
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| • Carnegie Mellon Lacrosse Vice President 2016 | • Phi Delta Theta Social Chair |
| • Society of Hispanic Professional Engineers | • Latin Student Association Internal Outreach Chair |