# Sidney M. Velado

## Personal Information

| | |
|---|---|
| Work Authorizations: | U.S. Citizen |
| email: | svelado@andrew.cmu.edu |
| Phone: | +1 412 298 7620 |
| Website: | mvelado.github.io |
| Address: | 5114 Beeler Street, Pittsburgh PA 15217 |

## Education

**2015-2018**    **Carnegie Mellon University** B.S in Mechanical Engineering and Robotics, Expected Graduation: May 2020 | GPA: 2.7 / 4.0

## Experience

**June 2018 - Present**

Robotics Engineer at Robotics Institute Biorobotics Laboratory
*Mechanical Design and Software Development*

-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)
-Programmed in C++ and Python and implemented them in a ROS framework

## Projects

**May 2018**

ODrive

-Contributed to the ODrive Robotics Documentation
-Contributed to development and maintenance of ODrive ROS package

**March 2018**

Urban Search and Rescue Robot
*Carnegie Mellon Robotics Competition*

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

**November 2017**

G.O.A.T Mechanical Robot

-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

## Skills

| | |
|---|---|
| Programming: | C++, MATLAB, Python, C, Development in Linux, Git, ROS |
| Mechanical Engineering: | SolidWorks, CNC Machining, 3D Printing, FEA Simulation |

## Leadership and Extracurricular

Society of Hispanic Professional Engineers | Phi Delta Theta Social Chair
Latin Student Association Internal Outreach Chair | CMU Club Lacrosse Vice President