

Daniel Melo Cruz

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EDUCATION

The Pennsylvania State University, University Park, PA

Bachelor of Science, Computer Engineering

Cumulative GPA: 3.90

Expected graduation date: **May 2021**

ACTIVITIES AND PROJECTS

Software Engineering Intern

TV Cabo Branco, Joao Pessoa, Brazil (Summer 2018)

- TV Cabo Branco is an affiliate of the Globo broadcasting conglomerate, the 2nd largest commercial TV network in the world.
- Adapted a speaker recognition algorithm that uses machine learning to work in real-time with Python.
- Implemented an algorithm to train the voices that will be recognized.

Fire-Fighting Robot Contest

The Pennsylvania State University, University Park, PA (Spring 2018)

- Developed a fully autonomous robot that simulates a real-world fire protection situation in a house for a regional competition.
- Designed hardware and software that allows the robot to find a lit candle and extinguish it in the shortest time possible, using Arduino.

Secretary of Penn State Robotics Club

The Pennsylvania State University, University Park, PA (Fall 2018 – Spring 2019)

- Assisting club's members with any questions about the material used in the meetings, like Arduinos, breadboards and components used in the robots.
- Manage the club email list with all the announcements and reminders for the meetings.
- Keep track of the member's attendance in the meetings, for organization of the club.
- Organized obstacle course internal competition between members of the club.

RELEVANT COURSEWORK

- Programming and Computation II: Data Structures and Object-Oriented Programming (CMPSC 132)
- Digital Design: Theory and Practice (CMPEN 270)

LANGUAGE & COMPUTER PROFICIENCY

Software Proficiency: Python, C, Lua, HTML, CSS

Languages: Spanish, Portuguese (native language)

AWARDS

- The President's Freshman Award (The Pennsylvania State University, 2018)