

Daniel Melo Cruz

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EDUCATION

The Pennsylvania State University, University Park, PA

Bachelor of Science, Computer Engineering

Cumulative GPA: 4.0

Expected graduation date: **May 2021**

EXTRACURRICULAR ACTIVITIES

Electrical Engineering Showcase Project

Federal University of Paraiba, Joao Pessoa, Brazil (Fall 2015)

- Developed an automated system to increase quality and survival rate of chickens in small farms.
- Created a small-scale operational model using Arduino microcontroller.
- Implemented new ways of saving electric energy for the farms.

Uniform and Accelerated Motion Analysis Project

Federal Institute of Paraiba, Joao Pessoa, Brazil (Spring 2017)

- Designed a system that analyzed the motion of objects for application in high school physics education.
- Devised a model that instantaneously plotted graphs of the position, velocity and acceleration of an object.
- Developed a prototype of the project using Arduino, Python and C.

Fire-Fighting Robot Contest

The Pennsylvania State University, University Park, PA (Fall 2017)

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

LANGUAGE & COMPUTER PROFICIENCY

Software Proficiency: Python, C, Lua

Languages: Portuguese (native language)

AWARDS

- Honorable Mention in International Collegiate Programming Contest
- Outstanding Student Award (Joao Pessoa City Council)
- Silver Medal in Paraiba State Coding Olympiad (Junior Advanced Category)
- Bronze Medal in Paraiba State Coding Olympiad (Programming 2 Category)
- Hackathon Outstanding Student Award