




Yarelis D. Acevedo Ríos

UNDERGRAD PHYSICS
STUDENT

 <https://github.com/YarelisAcevedo>

 yarelis.acevedo@upr.edu

 <https://yarelisacevedo.github.io/>

 <https://www.linkedin.com/in/yarelis-acevedo-550b7644/>

SKILLS

- C++ Programming
- Python Programming
- Hardware and software
 - Detector instrumentation
 - LabVIEW
 - Machine shop
 - Github
- Computer and cellphone repair
 - Mac/iPhone
 - Windows
 - Android
- Communicating Skills
- Fast Problem Solving
- CAD design
- 3D printing
- LaTeX

REFERENCES

Prof. Sudhir Malik
sudhir.malik@upr.edu | UPRM

Prof. Jim Alexander
jim.alexander@cornell.edu | Cornell University

Karl Smolenski (Mechanical Engineer)
karl.smolenski@cornell.edu | Cornell University

Prof. Armando Rua
armando.rua@upr.edu | UPRM

Yadira Bordlemay (Mechanical Engineer)
yadira.padilla@gmail.com | NASA, Cornell University

WORK EXPERIENCE

ATLAS SUPER PROGRAM

Oklahoma State University

May 29 - Jul 24

Search for pair production of a new heavy quark that decays into a W boson and a light quark in pp collisions (VLQ Wq+X) at ATLAS detector

DESIGN AND DEVELOPMENT OF A TENSILE MACHINE

University of Puerto Rico Mayaguez

Jan 20 - May 26

Design and development of a tensile machine powered by a Raspberry Pi and camera vision for the Material Sciences laboratory at UPRM

CORNELL UNIVERSITY COOP

Cornell University

Sept 2021 - Dec 2021

TIM characterization for TFPX upgrades mechanics for CMS - Cern

TEACHER ARDUINO WORKSHOP

CROEM School

Aug 24 - Aug 25, 2021

Designed an Arduino workshop offered to high school teachers of CROEM (Centro Residencial de Oportunidades Educativas en Mayagüez) School

CORNELL UNIVERSITY SUMMER INTERNSHIP

Cornell University

Jun 2021 - Aug 2021

TIM characterization for TFPX upgrades mechanics for CMS - Cern

REMOTE ARDUINO WORKSHOP FOR TEACHERS

Zoom

May 15 - May 16, 2021

Designed an Arduino workshop for teachers in Puerto Rico

REMOTE RESEARCH AT CORNELL UNIVERSITY

Cornell University

August 2020 - February 2021

Designed and built a tube-bending machine for TFPX Upgrade (CMS - Cern) remotely for Cornell University

CORNELL UNIVERSITY SUMMER INTERNSHIP

Cornell University

June 1 - August 10, 2019

Design and development of a tensile test machine for carbon fiber for TFPX Upgrade at Cornell University

HACK KIDS INSTRUCTOR

University of Puerto Rico Mayaguez

May 2019

Show and teach kids from 5 - 12 years old the basics of algorithms and programming

C++ WORKSHOP

University of Puerto Rico Mayaguez

May 2019

Show and teach students and general public the basics of C++

C++ WORKSHOP

W.A.L.K.S. school

April 2019

Show and teach kids from high school the basics of algorithms and programming

NASA L 'SPACE LEVEL 1

NASA

Aug 2018 - Dec 2018

Design a spaceship with a better landing and for analysis in the Mars ground

EDUCATION HISTORY

Physics

Grad date December 2022

University of Puerto Rico, Mayaguez

Miguel Melendez Muñoz High School

May 2010