Yarelis D. Acevedo Ríos

UNDERGRAD PHYSICS STUDENT

https://github.com/YarelisAcevedo

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https://yarelisacevedo.github.io/

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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

LAB TECHNICIAN | RESEARCH TECHNICIAN 2
Brown University — August 7 - Present
Sensor testing for Outer Tracker Update 2 for CMS, CERN

EARLY FELLOW
HSF Training — April 2023 - June 2023
Create lesson for Pytest for the Preservation Training of HSF.

LAB TECHNICIAN
Cutting Edge Superconductors — Jan 2023 - March 2023
Maintain the lab equipment in optimal conditions, prepare the mix for the superconductors, test the conductivity of the superconductors.

ATLAS SUPER PROGRAM
Oklahoma State University — May 2022 - Jul 2022
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 2022 - May 2022
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

CORNELL UNIVERSITY SUMMER INTERNSHIP
Cornell University — Jun 2021 - Aug 2021
TIM characterization for TFPX upgrades mechanics for CMS - Cern

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

EDUCATION HISTORY

Physics — Grad date May 2023
University of Puerto Rico, Mayaguez

Miguel Melendez Muñoz High School — May 2010