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EDUCATION

University of Puerto Rico, Mayagüez Campus

Aug. 2019 - Current

B.S. Software Engineering ----- Expected graduation date: June - 2023

• Relevant Courses:

CIIC4010 - ADVANCED PROGRAMMING:

- Technical Skills: Java, Object-Oriented Programming.

CIIC 4020 - DATA STRUCTURES:

- Technical Skills: Java. Representation of information as data; lists in linear, orthogonal, string, and array form; tree structures; techniques for storage allocation, distribution, collection, and sorting of data.

CIIC3011 - INTRODUCTION TO COMPUTER PROGRAMMING I:

- Technical Skills: Python, Pseudo-code, Flowcharts.

• On-going Courses:

INSO4101 - INTRODUCTION TO SOFTWARE ENGINEERING:

- Technical Skills: Analyze, design, code, test and document complex software systems. Using frameworks, languages, ect.

ADMI3008 - FUNDAMENTALS OF WEB DESIGN:

- Technical Skills: Creating a website from scratch using HTML, CSS and JavaScript

• GPA: 3.92/4.00

University of Puerto Rico, Carolina Campus

Aug. 2017 - Mar. 2019

A.S. Engineering Technology in Instrumentation and Control Systems ----- Graduated: June- 2019

• Developed, designed and implemented control and inspection solutions that meets today's industries necessities.

• Technical Skills: Studio5000 , Rslinx, Drive Executive, AutoCad (Electrical), Computer System Validation (CSV), Electrical and Control Circuits

• GPA: 4.00/4.00

PROJECTS

Java Game Box: Galaga, Pacman and Zelda - Class Project

Jan. 2020 - May 2020

• Using object-oriented programming, worked in a group of two to make a simplified version of three popular games: Galaga, Pacman and Zelda.

• Made with Java, used GitHub to work as a team on the code.

HTML Resources Parser - Class Project

Oct. 2019 - Oct. 2019

• Using Python, I was assigned to create a CMS (Content Management System) that parses an HTML file and finds all the internal resources used by that file. The results had to be saved in an output file, which was then used as a guide to know all the files that needed to be removed.

• I got to create computational artifacts, apply programming control structures (sequence, selection, and repetition), and process text files.

Unit Conversion - Class Project

Sept. 2019 - Oct. 2019

• Using Python, I was assigned to develop a small program to perform unit conversions.

• I got to apply the concepts of control structures and understood the design, implementation, and use of programs based on functions.

Bottle Line Control System - Class Project

Jan. 2019 - Mar. 2019

• A simulated process that was made through STUDIO 5000, where we controlled and automate the conveyor belts on which the water bottles were being transported.

Cement Packer Control System - Class Project

Aug. 2018 - Oct. 2018

• A simulated process that was made through STUDIO 5000, where we controlled and automate the whole system on which the cement was being transported and packed. The process included elevators (with AC Motors), rotary packers, silo, screws, sensors, air slide and others.

ACTIVITIES / LEADERSHIP

Tau Beta Pi - Honor Society of Engineering - Puerto Rico Alpha - Student Member

Jan. 2021 - Current

Members must be pursuing an engineering field and be in the highest 12.5% averages in their class.

UPRM Moonbuggy - Engineering Team - Department of Telemetry - Hardware position

Aug. 2020 - Current

• Working with teammates to compete next year in Nasa's Human Exploration Rover Challenge 2021.

Eli Lilly Corp. Internship - Industrial Instrumentation Technician

Jan. 2019 - Mar. 2019

• Shadowed and partnered alongside other Automation Technician and learned their different roles in the industry.

• Worked with instruments that controlled and monitored different types of variables in the field. (temp, level, pH and other)

• Worked with instruments that are used as standards to calibrate other instruments such as valves and sensors.

HONORS / AWARDS

Rector's Grand Award, University of Puerto Rico, Carolina Campus

June 2019

• The student with the highest academic excellence of a range of 50 students in Graduate Class 2019 of all associate degrees in the University of Puerto Rico - Carolina Campus.

Best Academic Average Award, University of Puerto Rico, Carolina Campus

June 2019

• The student with the best academic average of a range of about 25 students in Graduate Class 2019 in Associate Degree in Technology in Instrumentation and Control Systems Engineering.