

## ADRIANA R. BOTTEGA

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### WORK EXPERIENCE

#### SMART CITY STUDENT INTERN

JUNE 2024 – CURRENT

CITY OF WINTER HAVEN, Technology Services Department

Winter Haven, Florida

- Automated and facilitated the filing of 200+ bills using a python script achieving 100% satisfaction from the finance department.
- Developed city-scape simulation of Winter Haven and player-NPC interactions, integrated with ChatGPT API, on Unreal Engine 5.

#### TEACHING ASSISTANT FOR C

MAY 2023 – AUGUST 2024

FLORIDA POLYTECHNIC UNIVERSITY, Computer Science Department

Lakeland, Florida

- Assessed and provided feedback on 500+ homework assignments, resulting in a 16% increased student productivity.
- Worked one-on-one with students achieving a 20% increased productivity.

#### ORIENTATION LEADER

MAY 2023 – AUGUST 2024

FLORIDA POLYTECHNIC UNIVERSITY

Lakeland, Florida

- Coordinated and lead virtual and in-person meetings with 500+ incoming students and promoted interaction.

### EDUCATION

#### BACHELOR'S DEGREE, *Computer Engineering*

EXPECTED GRADUATION - SPRING 2025

FLORIDA POLYTECHNIC UNIVERSITY | **Cumulative GPA: 3.96**

Lakeland, Florida

**Relevant course work:** Operating Systems Concepts, Digital Signal Processing, Data Structures and Algorithms, Computer Networks, Systems and Signals, Autonomous Robotic Systems, Digital Electronics, Control Theory, Object Oriented Programming, Circuits, Digital Logic Design.

President's List: Fall 2022, Spring 2023, Fall 2023, Spring 2024.

#### ASSOCIATE'S DEGREE, *Associate Degree in Liberal Arts*

FALL 2020 - SUMMER 2022

BROWARD COLLEGE | Cumulative GPA: 3.6

Broward County, Florida

President's List: Spring 2021, Summer 2021. Dean's List: Spring 2022, Summer 2022.

### PROJECTS

#### JAVAFX FULL STACK GAME

SPRING 2024

FLORIDA POLYTECHNIC UNIVERSITY

Lakeland, Florida

- Designed and developed a Java/JavaFX game from concept to completion, incorporating both front-end and back-end functionalities.

#### EMBEDDED SYSTEMS DESIGN AND DEVELOPMENT

FALL 2023

FLORIDA POLYTECHNIC UNIVERSITY

Lakeland, Florida

- Designed, developed, and constructed an automated knitting machine consisting of a 3D printed, two-servo-controlled, robot arm and a DC motor-powered rotating loom. We directly manipulated the registers of the Atmega328 using embedded C to control the motors.

#### FPGA CIRCUIT DESIGN

SPRING 2023

FLORIDA POLYTECHNIC UNIVERSITY

Lakeland, Florida

- Designed and executed a digital stopwatch using Boolean Expression to specify the circuit, implemented Verilog in Questa, and tested on an FPGA board. Utilized sequential logic by employing flip-flops, ripple carry adder, and clock divider.

### SKILLS AND CERTIFICATIONS

**Advanced:** C, C++, Python, Java, Microsoft Tools: PowerPoint, Excel, Word, Linux scripting language, JavaFX, Microchip Studio IDE for embedded development, AVR assembly programming language, Questa software targeted for Intel® FPGAs devices, Verilog hardware description language (HDL), Unreal Engine 5 3D computer graphics game engine, HSpice device-level circuit simulator, Arduino open-source electronics platform.

Fluent in Spanish and English, intermediate Italian.

PCAP – Certified Associate Python Programmer, Python Institute

July 2024

PCEP – Certified Entry-level Python Programmer, Python Institute

August 2024

CAIE - Certified Artificial Intelligence Engineer, United States Artificial Intelligence Institute

In progress

### LEADERSHIP AND EXTRACURRICULAR

#### SPHE VICE PRESIDENT OF TECHNOLOGY

MAY 2023 - CURRENT

FLORIDA POLYTECHNIC UNIVERSITY

Lakeland, Florida

Organize and supervise programming boot camps and technology-related events and activities.