

# Yllona Coronado

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## EDUCATION

### Georgia Institute of Technology, Atlanta, GA

May 2023

Candidate for Bachelor of Biomedical Engineering and Minor in German

GPA: 3.40/4.00

**Scholarships:** Zell Miller and Goizueta

**Relevant Coursework:** Materials science, Statistics, Bio transport, Biomechanics, Design & Testing & Prototyping, Chemistry lab procedures

## PROJECTS

### Collaborative Project in Problems in Biomedical Engineering, GT, ATL, GA

January 2021 – May 2021

*Creation of a Stress Monitor, a design idea to improve the lives of pregnant African American women*

- Identified a demographic that faces an issue in the biomedical world in a team of four undergrad students
- Created a physical and mathematical prototype to read data from the skin with higher levels of pigmentation, and to allow African American mothers to be able to self-monitor stress levels, to detect early stages of hypertension
- Tested the physical prototype and used the mathematical prototype, composed of Arduino, a circuit board, a GSR sensor, and a heart rate sensor to define and determine the accuracy of the device (86% accurate)

## EXPERIENCE

### BioWins Lab

January 2022 - Present

*Undergraduate Researcher*

- Detecting and characterizing environmental interference between biosensor signals and a receiving device, to filter out the interference for the biosensor data to be received over a larger distance than before
- Demonstrating the way implanted biosensor data can be gathered from a distance when infiltrated with a virus, which raises a question regarding the privacy and security of implanted biosensors
- Synthesized various versions of nanoparticles with different lipid bases, to be used for drug delivery
- Creating acids and bases of varying pH values, and synthesizing gastrointestinal fluids to be used to test the accuracy of the biosensor in an in vitro environment, after creating proposals for all experiments
- Leading trials of measuring varying temperature values on store-bought meat to compare and determine the accuracy of biosensors when reading temperature values of tissue
- Social coordinator of the research lab

### United Distributors

May 2021 – July 2021

*Merchandiser and Sales Intern*

- Led development of displays/individual projects that resulted in an increase in sales of around 20%
- Maintained and organized appealing displays, workspace, and back stock
- Gathered input from consumer interests regarding products to decide which type of display would have the best resulting sale increase in that specific store location
- Sent in orders detailing the amount of each product to be bought and delivered to each individual store within the given territory, after reviewing the sales of the previous week

### Waldan Pond Apartments

December 2021 – May 2021

*Leasing Agent*

- Provided exceptional customer service to over 200 residents, prospects, and vendors
- Actively listened and took customer needs into consideration, then acted to directly improve overall customer experience, allowing more prospects to rent; responsible for always keeping occupancy at 98% or higher
- Prepared apartments by communicating with vendors and making appointments for the apartments
- Presented property to prospects through tours and online communication, and took charge in leasing apartments

### Georgia Tech Campus Recreation Center

February 2020 – March 2020

*Lifeguard*

## SKILLS

Programming:

MATLAB, Fusion360

Communication:

Presentations, Email, Lab write-ups, Meetings, Group work

Language:

English (native), German (B2/C1), Spanish (conversational ability)

Clubs:

Engineering World Health (EWH), SGA community relations committee, GTBarbell Club

Interests:

Powerlifting, hiking, baking