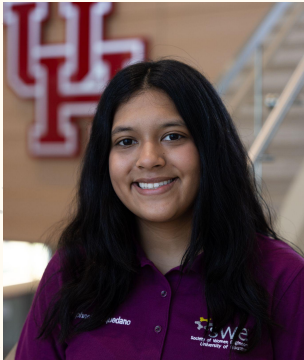


# EmpowerED Spring Camp

**University of Houston – Society  
of Women Engineers (SWE)**

# Who are we?



Stephanie Baquedano  
MechE Sophomore  
SWE Outreach Co-Chair

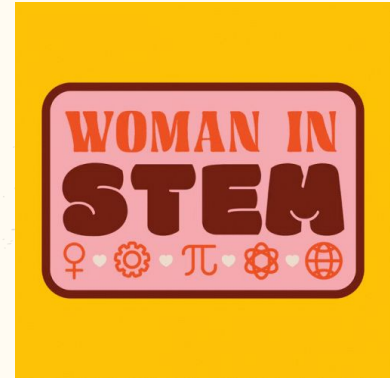
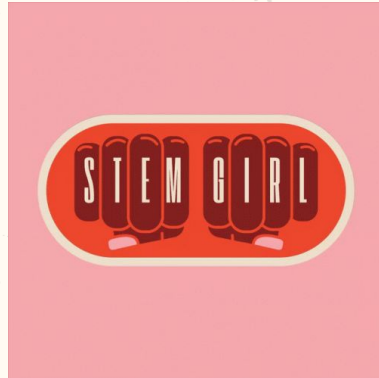


Christal Biney  
MechE Sophomore  
SWE Outreach Co-Chair



# What is the goal of this program?

This exciting online event is tailored for high school **juniors** and **seniors** to immerse themselves in a three-day engineering experience to jumpstart their engineering journey.



# Icebreaker

- ❖ Name
- ❖ School
- ❖ What STEM field you're interested in
- ❖ What has been your favorite class this semester
- ❖ Hobby



-Volunteers

-Sarah Jimenez

-Vivian Dang

-Jennifer Álvarez

-Sayuri

-Dominique Quellar

-Betsaida Lira

-Rassel Jawhari

-Elise Patterson

-Grace Marshall

-Farizah Alam

-Jacqueline Sapon R

-Monet Nevarez

-Veda Manchana

-Hillary Padilla

-Ashley Djouguem

-Reba Joseph



-Dayana Elizabeth

-Lopez-Medina

-Adetirele Adekanye

-Precious Ayo

-Avery Martin

-Shiza Khan

-Anel Gaytan

-Sharon Fashola

-Ayah Hafid



HI THERE

# Agenda



## Day 1

- Introduction
- Resume Breakout Rooms
- LinkedIn + Elevator Pitch Breakout Rooms
- Closing Session



## Day 2

- Introduction
- Project Sessions
  - Computer Aided Design
  - Coding (python)
  - Arduino (electronics)
- Closing session




## Day 3

- Guest Speakers
- Q&A Session
- Application Support Breakout Rooms
- Opportunities at UH
- Next Steps and Closing Session












**Day 1!**





# What is a Resume?



And why is it important?



# Stephanie Baquedano

832-297-1124 - snbaqued@cougarnet.uh.edu - [www.linkedin.com/in/stephaniebaquedano](https://www.linkedin.com/in/stephaniebaquedano)

## SUMMARY

Sophomore mechanical engineering student with experience in leadership and teamwork seeking research opportunities.

## EDUCATION

**Bachelor of Science in Mechanical Engineering**

**Minor in Phronesis, Politics, and Ethics**

University of Houston, Honors College, Cullen College of Engineering

Expected Graduation Date: May 2026

Houston, Texas

## RELEVANT PROJECTS

**MicMacMoe Games**, University of Houston

April 2023 – May 2023

- Developed a dynamic Tic-Tac-Toe game using MATLAB app design.
- Enhanced user engagement with the choice to compete against another human or an AI opponent with 3 difficulty levels.
- Created a captivating and immersive gaming experience with an Arduino breadboard featuring interactive lights.

**GoBabyGo Project**, University of Houston

January 2023 – April 2023

- Collaborated with 25 students to identify the mobility needs of children with disabilities while maintaining safety standards.
- Led the quantitative analysis of key project aspects, including seat adjustability, low height, product weight, and top speed.
- Reviewed FDA regulations to maintain proper documentation of project.

**Medical Device Make-a-Thon**, Texas A&M University

February 2023

- Assessed research within the domain of cardiac pathology.
- Designed wearable monitoring device for prevention of the side effects of cardiac pathology.
- Presented prototype to a panel of professional judges, mentors, and 200+ diverse audience of competitors.

## WORK EXPERIENCE

**Church Secretary - Church of God of Prophecy**, Houston, Texas

April 2019 - Present

- Monitor approximately 60 memberships monthly to troubleshoot member attendance and determine outreach efficiency.
- Compile 12 state and national financial reports per year in a consistent manner using Microsoft Excel
- Coordinate biannual meetings with 20 church leaders.

**Summer Intern - The John P. McGovern Museum of Health and Medical Science**, Houston, Texas

May 2023 – August 2023

- Taught approximately 15 students between the ages of 5-7 using engaging science and health-related content.
- Implimented effective teaching and classroom management strategies in a team of 3.
- Researched advanced marketing and social media strategies to boost engagement and public engagement initiatives.

## LEADERSHIP AND COMMUNITY SERVICE

**Youth Ministry Leader - Church of God of Prophecy**, Houston, Texas

August 2020 – Present

- Established a mentorship program that hosted 3+ classes per month for teen members, increasing youth activity by 65% per year.
- Implemented opportunities for youth to participate in youth services and grow public speaking skills and confidence.
- Developed 3 branches of service for church and community with youth leaders at a local, regional, and state level.

**Outreach Committee Co-Chair - UH Society of Women Engineers (SWE)**, Houston, Texas

May 2023 - Present

- Lead the planning and execution of events that aim to engage and educate K-12 grade students in STEM.
- Cooperate with other officers to allocate budgets and develop marketing strategies for outreach events.

**Webmaster - UH Biomedical Engineering Society (BMES)**, Houston, Texas

May 2023 - Present

- Manage the organization's website using WordPress.
- Publish information that is accurate, engaging, and informative for both current and prospective members.
- Centralize a dedicated resources section on the website for students interested in the field of biomedical engineering.

## SKILLS

Software: Microsoft Office Suite, MATLAB, SolidWorks, AutoCAD

Languages: Spanish (native speaker)



## HONORS/AWARDS

Society of Women Engineers Freshman of the Year (2023), Wood/Isa Bridget Fitzpatrick Memorial Award (2023), SWE Aid Award (2023), Dean's List (Fall 2022), Hispanic Scholarship Fund Scholar (2021), Academic Excellence Scholarship (2022-Present)





# Resume Breakdown!



[Link to HS Resume](#)

[Link to Engineering Resume](#)

01

# Education/Summary

Motivated student (3.6/4.0) who demonstrates strong work ethic and creative ability. Seeking to apply my graphic design skills and artistic drive as a summer intern at your company. Will leverage proven experience as a competent designer to contribute to company goals and needs.

## EDUCATION

**Santa Monica High School, Santa Monica, CA**

Senior

- **GPA:** 3.6 / 4.0
- **Relevant Coursework:** Intro to Graphic Design, AP Art, Yearbook, Computer Applications
- **Honors:** Member of the National Honors Society and National Art Education Association
- **Clubs:** Yearbook Club, Santa Monica Newspaper, Spanish club

# Experience/Projects

## Yearbook Club

*Yearbook Design Team Lead*

*2015 -*

*Present*

- **Created** a Yearbook logo designed to incorporate school mascot and colors; opted to use coated paper in 2016, which improved photo quality and **increased profits by 5%**.
- **Arrange** all club photos and pages to correspond to yearbook theme.
- **Trained** and **supervised 2 sophomore** students in graphic design.

## Santa Monica Newspaper

*Graphic Designer*

*2015 - Present*

- **Procured** advertising for school paper, **saving organization 25% in costs**.
- **Edited** and curated photos used for school paper; **increasing readership by 15%**.
- Custom design page layouts to fit articles, photos, and advertisements into strict format.
- **Contributed** to school's online publication by designing page layouts to accommodate mobile screens.

03

# Leadership/Volunteering



## Active Member

University of Wisconsin-Madison • Actuarial Club • September 2017-Present

- Engage in a variety of employer presentations from Milliman, The Actuarial Board for Counseling and Discipline, and the Casualty Actuarial Society to gain real-world insight into relevant actuarial topics
- Assist at the Olin Park Haunted House and St. Vincent de Paul volunteer events with fellow members

## Badger Volunteer Leader

University of Wisconsin-Madison • Badger Volunteers • January 2017-Present

- Coordinate transportation, track attendance and facilitate dialogue between 3 Badger Volunteers
- Facilitate a constructive learning environment and assist with various assignments and activities
- Encourage children to engage in positive behaviors with their peers through being an active role model



# Skills/Honors

- Proficient in Photoshop and Adobe Creative Suite
- Basic knowledge of HTML
- Basic knowledge of Adobe Dreamweaver
- Great photographer
- Keen eye for aesthetics with good understanding of image gradients
- Intermediate speaking level in Spanish

- Nominated for Macmillan Prize for Illustration in 2016 Submitted artwork to Ocean Awareness Student Art Contest 2016
- Came in 2nd at Houston Rodeo Art Contest out of 18828282 submissions

# Common Mistakes

1. Bad Grammar or Spelling
2. Poor Formatting
3. More than one page
4. Too general or too specific
5. Inappropriate email address
6. Wrong Contact Information
7. Including references
8. Exaggerating truth
9. Not tailoring to job description
10. Highlighting duties instead of accomplishments



# Breakout Rooms Time!

01

## Education/Summary

Led by: Christal Biney

02

## Experience/Projects

Led by: Nancy Luu

03

## Leadership/Volunteering

Led by: Quynh Nguyen

04

## Skills/Honors

Led by: Hannah Santana



# What is an Elevator Pitch ?



A brief way of  
introducing yourself for  
around 30 seconds

Helps you make a  
connection with someone

Handy to have in mind  
any time you're at an  
event where you might  
meet a prospective  
recruiter or network  
connections

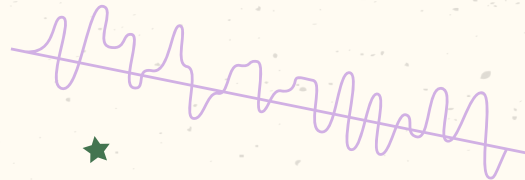





# Example of an Elevator Pitch





Hi! I'm [insert name]. I am a current [grade level] at [school] and I am passionate about/hoping to major in [state area of interest/ prospective major]. I am interested in [career] because [reason] I have previously worked as [experience] and discovered that I really enjoy [what you enjoyed] I have researched your scholarship/company/program and am drawn to [why that scholarship/company/program].








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**NORTHWOOD**






**Bridgit Mendler**  · 3er  
CEO and Co-Founder at Northwood  
Palo Alto, California, Estados Unidos · [Información de contacto](#)  
Más de 500 contactos  
Seguido por Odalys Caballero, Habib Sanchez y 25 personas más  
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**Northwood**


**Harvard Law School**


**Actividad**  
144.525 seguidores

**Anuncio**   
Relevant certifications and skills to the HR industry.  
Apply now.

  
Prepare for HR Certification With WGU  
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**Gente que podrías conocer**  
A partir del sector de Bridgit

**George Ghandour**  
Technical Professional - Process at KBR  
[Conectar](#)

**Xavier Garay**  
Estudiante de ingeniería mecánica en Rutgers Universi...  
[Conectar](#)



# LinkedIn

What is it and why is important?

# Components of linkedin

- ❖ About/Summary
- ❖ Experience
- ❖ Education
- ❖ Skills
- ❖ Projects
- ❖ Honors/Awards
- ❖ Organizations
- ❖ Profile Photo



# Breakout Rooms Time!

01

**Elevator Pitch**

Led by: Bedan Ngugi

02

**LinkedIn**

Led by: Stephanie Baquedano

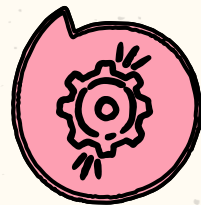
# Closing Session

## Applications of Newly Found Skills

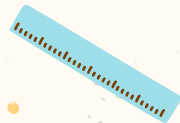
- Complete your resume
  - Connect with 5 people on linkedin
  - Practice your Elevator Pitch with family and friends
- Will help you get a job/research position

## Reminders for Tomorrow

- We will send out today's slides presentation and resume template
- Make sure to join at 5:00 pm tomorrow for project day!



Day 2!



# What are Projects ?



What are the different types of projects and why are they so important?

-Projects are set of tasks that must be completed within a defined timeline to accomplish a specific set of goals.

-You can have personal, school, and extracurricular projects



-Allow you to acquire, practice, and demonstrate important skills for your resume and future job.

-Some important skills depending on the engineering path you decide to pursue include: CAD, Coding and arduino



## CAD

Computer aided design that helps you make 2D and 3D models

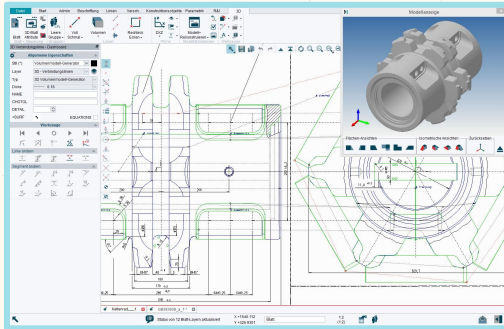
## Coding

Computer instructions into a form that a computer can understand



Open-source electronic platforms that uses hardware and software

# Project Introduction



```
25
26 def check_db():
27     if not os.path.isfile(FILE_URI):
28         db.create_all()
29
30 @app.route("/")
31 def home():
32     check_db()
33     all_books = db.session.query(Book).all()
34     return render_template("index.html", books=all_books)
35
36 @app.route("/edit", methods=['GET', 'POST'])
37 def edit():
38
39     if request.method == "POST":
40         book_id = request.form["id"]
41         book_to_update = Book.query.get(book_id)
42         book_to_update.rating = request.form["rating"]
43         db.session.commit()
44         return redirect(url_for("home"))
```



# Project Breakout Rooms

CAD



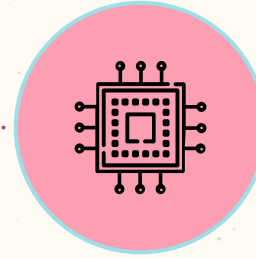
Lead by: Christal Biney

Coding



Lead by: Meenakshi Vinod

Arduino



Lead by : Tanya Koganti

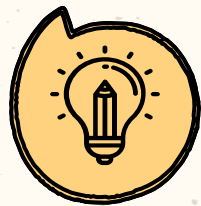
# Closing Session

## Applications of Newly Found Skills

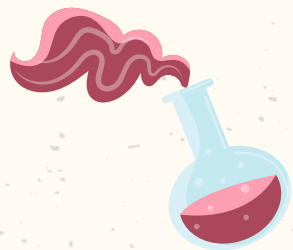
- Work on similar projects to keep expanding your knowledge
- Add projects to resume and LinkedIn

## Reminders for Tomorrow

- We will send out today's slides presentation and resume template
- Make sure to join at 5:00 pm tomorrow for guest speakers and application support



**Day 3!**



# Icebreaker

Find something cool in your room or surroundings and talk about it.

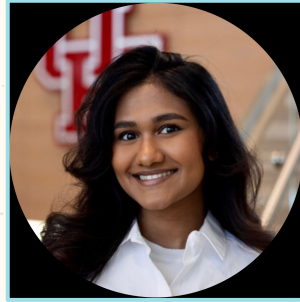


# Guest Speakers



**Cherrene  
Framo**

Industrial Engineering



**Ereka  
Jayasekera**

Electrical Engineering



**Cherry  
Yi**

Chemical Engineering



**Christal  
Biney**

Mechanical Engineering

# Q&A

**Raise hand to ask question or drop  
question in chat**



# BREAK!

**Return in 15 minutes**





# Crafting a Good Application Statement

## What is a Why is Essay?

- ❖ how much research have you done on our program?
- ❖ How would you benefit from doing this program?
- ❖ What separates you from all the other people applying to this program?
- ❖ It's important to know how to write this essay as you apply to summer programs and scholarships!



# Crafting a Good Application Statement

## Resources:

- ❖ **LinkedIn-** Search the summer program which you wish to apply to on LinkedIn and review the profiles of people who have participated. Don't be afraid to connect (use your elevator pitch) and ask questions!
- ❖ **Google-** is your best friend! Find the program's website and thoroughly look through it.
- ❖ College Essay Guy:  
<https://www.collegeessayguy.com/>
- ❖ **The more detail the better!**

## Personalizing your essay:

- ❖ Integrate and weave in your
  - Career goals
  - Academic goals
  - Socio-Emotional / Personal Goals
- ❖ Make sure to connect how this program will improve YOU!
- ❖ As such, you want to talk about yourself if you have the space to. The more you can connect to the reader and establish your goals, the better your essay is!

# Programs to Apply to

[Link](#)



**Girls  
who  
Code**

[Link](#)

**Kode  
with  
Klossy**

[Link](#)

**Fly In  
Programs**

**TC  
Energy  
Summer  
Scholars  
Academy**

[Link](#)

[Link](#)

**Teens of  
Color  
Abroad**

**Grip  
Tape**



<https://www.griptape.org/>

# Opportunities at The University of Houston



## HERE

2 week summer research program that teaches freshmen and sophomores about research.



## PURS

Semester of research for all students to complete research with a professor.



## SURF

Summer research program for all student to complete an 8 weeks of research with a faculty member.

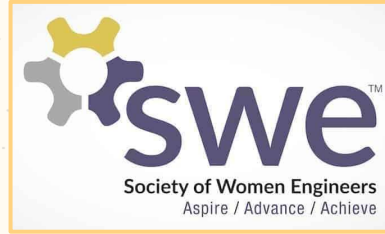


## Research

Research can be about any subject and is a science experiment to learn more about a topic and by applying what is learned can help build cool things.

# Engineering in University of Houston

**SWE – Society of Women Engineers**



**ASME– AMERICAN Society of Mechanical Engineers**



**IEEE – Institute of Electrical and Electronics Engineer**



**BMES – Biomedical Engineering Society (UH Specific)**



# Closing Session + Next Steps + follow SWE on Insta + contact info





“Stay curious.

Keep learning and keep growing.

You will achieve everything you  
put your mind to.”