

*Westwood High School*

*Senior Independent Project Program*

*Summer 2021 Cohort*

# Ria Dani

Mission Statement: I will engage in the process of conducting mutagenesis research by working hands-on with my mentor in her lab to gain knowledge and experience that will help me understand the field of genetics that I am interested in pursuing in the future.



Mentor: Dr. Susan Lovett  
Professor of Biology & Microbiology  
at Brandeis University



Sample Petridish

# Owen Dunton

**Mission Statement:** I will enhance my ability to teach first aid through independent research and by training to be an American Red Cross CPR Instructor in order to enable students in my community to take action during a medical emergency and save lives.

**Mentor:** Heidi Brock  
AHA Instructor and  
Director of *Hands that  
Heal*



# Angelina Dong

Mission Statement: I will fundraise for Boston Chinatown Neighborhood Center (BCNC) by organizing a virtual 5k walk/run. By doing this, I will spread awareness of the rise in anti-Asian sentiment and help those impacted by this in order to foster a more inclusive Greater Boston community.

**Mentor: Jon Eng**  
**Quincy Leadership Council of BCNC**



**Boston Chinatown  
Neighborhood Center**  
波士頓華埠社區中心

# Quinn O'Brien

I will improve my knowledge on the importance of relationships within education, and with the help of my mentor I will be researching learning theories and the psychology behind them.

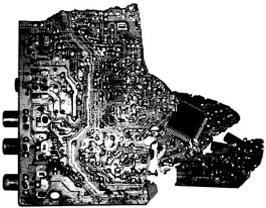
**Mentor: Chandler Creedon, School Psychologist**

# CAROLINE KUNDRAT

## MISSION STATEMENT:

I will research graphic design, subculture, and writing to self publish a zine that caters to my interests and spreads them to people that would otherwise not know about the chosen subject.

OZONE  
DECAY

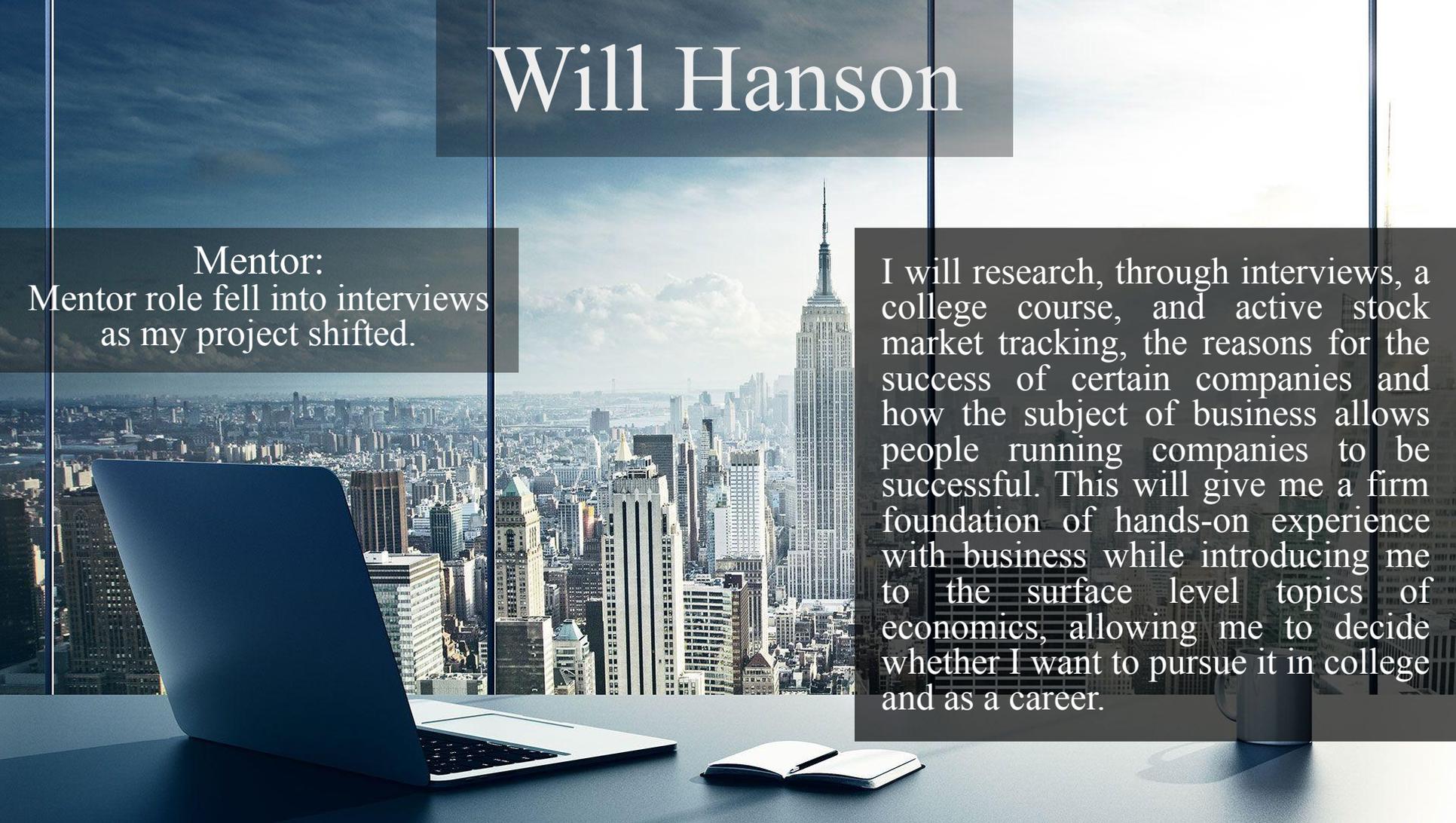


INDUSTRIAL MUSIC

## MENTOR:

Phoenix Lai, Pratt  
Institute Graduate

# Will Hanson



Mentor:  
Mentor role fell into interviews  
as my project shifted.

I will research, through interviews, a college course, and active stock market tracking, the reasons for the success of certain companies and how the subject of business allows people running companies to be successful. This will give me a firm foundation of hands-on experience with business while introducing me to the surface level topics of economics, allowing me to decide whether I want to pursue it in college and as a career.

# ELIANA HUTCHINS

Mission Statement: I will work with my mentor to obtain first hand experience interacting with cancer patients in a hospital, while using my observations and research to create a website centered around a new type of cancer treatment, CAR T cell therapy.

Mentor: Meredith Saylor, Nurse Practitioner,  
Massachusetts General Hospital



Lumbar Puncture



Bone Marrow Biopsy

## Sai Reddy

**Mission Statement:** I will gain lab experience by assisting a graduate student in lab research on biofouling to prevent the degradation of ships. I will then make the molecules, mix them with some paint formulations, and coat the paint on surfaces and test them in lab simulated marine conditions or in the actual marine setting.

Mentor:  
Professor Milana Vasudev  
Department of Bioengineering UMASS Dartmouth



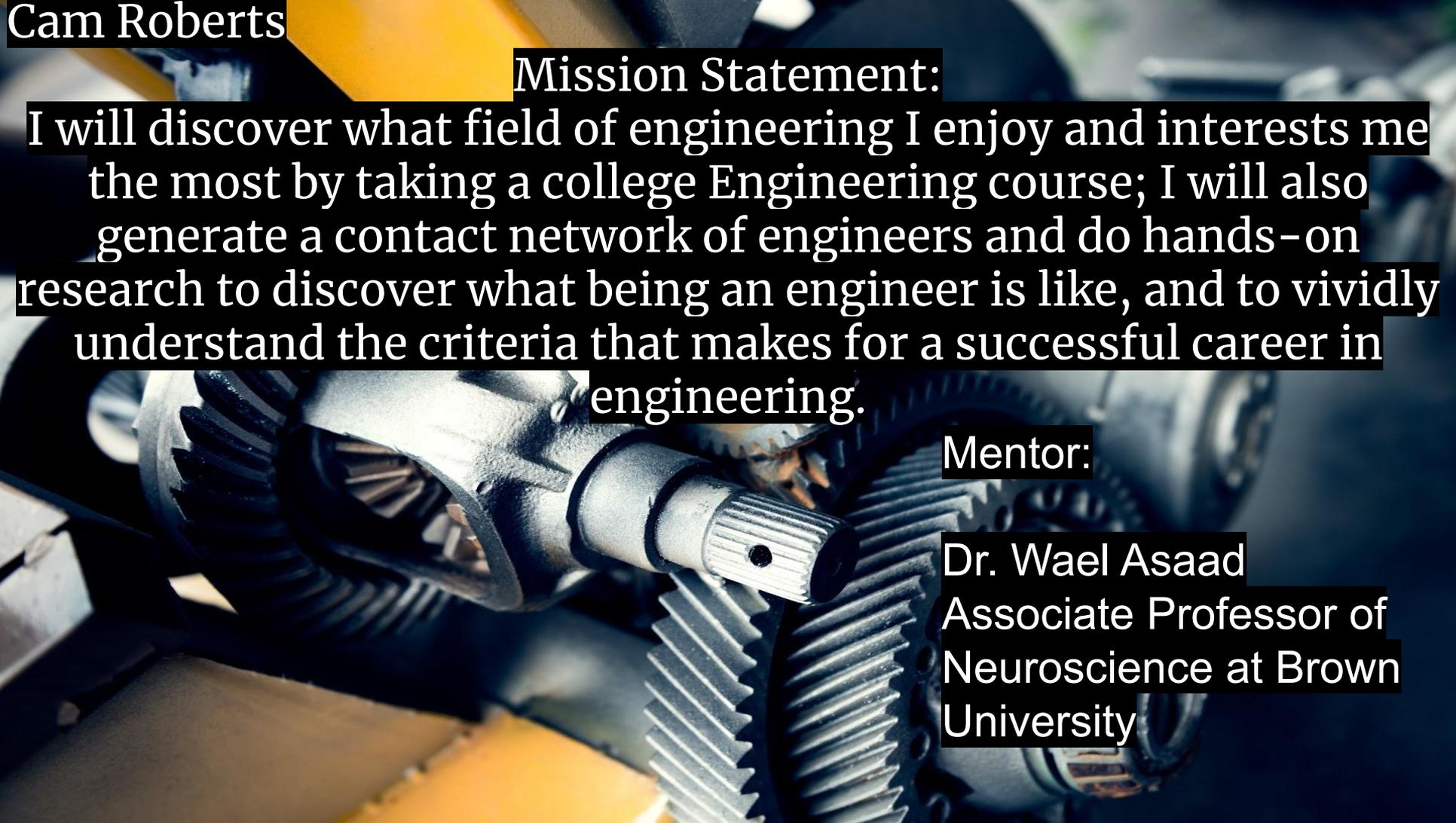
# Megan MacDonald

## Mission Statement:

I will educate the public about local invasive species by learning proper identification and removal techniques and creating a public campaign in order to educate the community and spread awareness, which will help preserve the environment and maintain healthy ecosystems.

## Mentor:

Karro Frost - Conservation Biologist for The Massachusetts Natural Heritage and Endangered Species Program

A close-up photograph of a mechanical assembly, likely a gearbox or engine component. It features several interlocking metal gears of different sizes and a central shaft with a splined end. The lighting is dramatic, highlighting the metallic textures and the complex geometry of the parts.

**Cam Roberts**

**Mission Statement:**

**I will discover what field of engineering I enjoy and interests me the most by taking a college Engineering course; I will also generate a contact network of engineers and do hands-on research to discover what being an engineer is like, and to vividly understand the criteria that makes for a successful career in engineering.**

**Mentor:**

**Dr. Wael Asaad  
Associate Professor of  
Neuroscience at Brown  
University**

Sofia Zhao

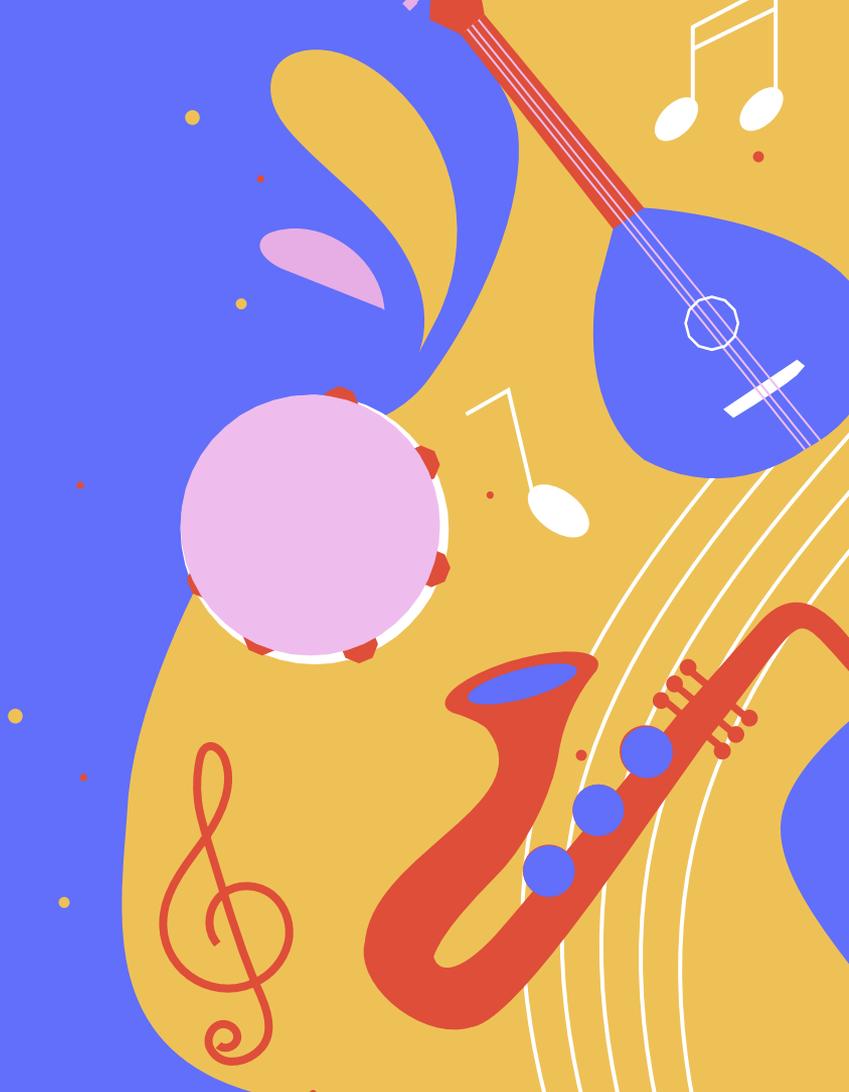


## Mission Statement:

I will provide a performance opportunity for student musicians and support for Westwood music programs to promote music education in the community. Through organizing a benefit concert featuring Westwood musicians, I will fundraise for the Prodigy Program and WPS Performing Arts, give students a platform to showcase their craft, and encourage students to become involved in and develop a love and understanding for music.

## Mentor:

**Mr. James Giurleo** - Former WPS  
K-12 Director of Performing Arts, Founder of  
Prodigy Program



**Mission Statement:** I will learn about what goes into building a business through networking with local business owners and ultimately share my acquired knowledge about their impact on my community through publishing an article.



Emily with Mark Parrish.

Network:

**Stacy Madison**, Founder Stacy's Pita Chips, Founder & CEO BeBold Bars

**Mark Parrish**, CEO Crescent Ridge

**Marie Cortas**, CEO Bubbling Brook

**Megan Miller**, PR360+ Account Supervisor & Journalism major

EMILY LIU



Click the newspaper for the article!