

GREG ALBANO

LEADERSHIP · CURIOSITY · DRIVE

4342 Oakwood Ave, La Cañada CA, 91011

☎ (213) 880 - 7781 | ✉ gva4@cornell.edu | 🏠 gregalbano.github.io | 🌐 https://www.linkedin.com/in/gregalbano/

Cornell University · Class of 2019

Ithaca, NY : 2015 - Present

BIOLOGICAL ENGINEERING

GPA : 3.764 / 4

Skills : Finite Element Method, Cloning, Nucleic Acid Engineering

- COMSOL, ANSYS, Fusion 360

Tools : Python, MATLAB, HTML, LaTeX

- Illustrator, Photoshop

Experience

Position : Team Lead, Cornell iGEM

December 2016 - Present

- Served as overall team lead of roughly 30 dedicated engineers, designers, and synthetic biologists, managing an **annual budget of around \$35,000**
- Aligned stakeholders in both academia and industry, coupling advancement of scientific knowledge with providing tangible benefit to our target consumer
- Lead the team to a gold medal and an award for "**Best Supporting Entrepreneurship**" against a field of hundreds of international teams at the iGEM competition
- Implemented an accounting system, established documentation for biosafety compliance, and expanded corporate sponsorship

Position : R&D Intern, Procter and Gamble

June 2018 - August 2018

- Worked in process development engineering, developing a manufacturing strategy for the implementation reinforced bottoms on Glad™ trash bags
- **Developed a web app** to deploy modeling resources to collaborators on related projects
- Gained cross functional experience in marketing, manufacturing, and products research

Position : Teaching Assistant, Thermodynamics

Fall 2017

- Led a section, authored a homework assignment and its solutions, and held office hours to assist with homework and exams

Projects

On Campus Research : Vascular Inspired Reactor

Fall 2016 - Present

- Developed a Finite Element model in COMSOL to analyze the effect of controllable, independent, variables on mass transfer kinetics in a cell-free bioreactor
- Assisted in discovery work on using DNA based hydrogels as a template for cell-free protein expression
- Practiced universal microbiology techniques such as qPCR, SDS-PAGE, Western Blot, Oligonucleotide Design, cloning, and cell culture

Cornell iGEM : Oxyponics

2017

- Made executive decisions regarding project direction, asset management, and competition strategy for a team of 31 people
- Team developed and implemented an in vivo communication system between an on-board computer and engineered, redox sensitive, bacteria for rapid detection and response of radical oxygen species in hydroponic systems
- Project was awarded Best Supporting Entrepreneurship, based on involvement with Rev Ithaca Startup Works, a local, Cornell sponsored, startup incubator

Cornell iGEM : Legendairy

2016

- Developed a recombinant strain of *E. coli* to synthesize bacteriocins shown to combat Bovine Mastitis as a member of the Wet Lab subteam
- Team earned a silver medal at competition, and was recognized by judges for outstanding work in consumer understanding

Senior Design Project : Counter Current Exchange

Spring, 2018

- Utilized finite element method modeling to evaluate the relevant factors in determining blood vessel location in human extremities, with respect to heat retention
- **Published a paper** detailing the trade-off between insulation and counter current heat conservation, as a function of the depth at which blood vessels are located beneath the skin

Service

Food Forward

2013 - Present

- Began by donating unsold produce to food shelters after working a stand at the farmers market
- Expanded impact by organizing teams of volunteers to pick, pack, and deliver fruit from local test orchards to food banks

Clubs and Personal Interests

- Alpha Epsilon, Biological Engineering Honors Society
- Baseball Team Captain, La Cañada High School
- Avid rock climber, amateur chef, and social chair of the Cornell Chess Club