Greg Albano

Leadership · Curiosity · Drive

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Cornell University · Class of 2019 *Ithaca, NY : 2015 - Present*

Biological Engineering ***GPA : 3.76 / 4***

Skills : Finite Element Method, Cloning, Nucleic Acid Engineering

Tools :
- COMSOL, ANSYS, Fusion 360
- 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
- Led 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

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 depth

Service

Food Forward *2013 - Present*

- Began by donating unsold produce to food shelters from my own 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