

# CALVIN PANG

Mobile: (949)838-5459 | Email: [cp684@cornell.edu](mailto:cp684@cornell.edu)

[www.linkedin.com/in/calvin-pang-b1019b325](https://www.linkedin.com/in/calvin-pang-b1019b325)

## EDUCATION

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### Cornell University

Bachelor of Science- Mechanical Engineering

Ithaca, NY

Expected Graduation Date: May 2028

**Relevant Courses:** Multivariable Calculus, Differential Equations, Introduction to Computing: An Engineering and Science Perspective, Electromagnetism, Lasers and Photonics, Statics and Mechanics of Solids, Thermodynamics

## RESEARCH & FIELD EXPERIENCE

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### LEAD Research Proposal, Irvine, CA — *Researcher*

Feb 2022 - May 2022

- Researched aerodynamics for the theoretical optimization of commercial aviation, collaborated with and approved by a Cal Tech professor.
- Studied the efficiency of each component found on a commercial aircraft, taking into consideration costs and realism.
- Wrote up a thesis and research proposal paper explaining the cost and resource benefits implementing optimal components can provide.

### Radio-Controlled Car Project — *Independent Work*

May 2025 - Aug 2025

- Independent project based on similar interests of previous research done on optimization of aerodynamics.
- Conducted a trade study to optimize a 1/10 scale crawler RC car, shifting performance priorities from torque and climbing capability to high-speed, on-road performance.
- Identified and evaluated key subsystems for modification, including drivetrain gearing, motor type (brushed vs. brushless), ESC compatibility, battery voltage (2S vs. 3S LiPo), and suspension stiffness.
- Selected optimal combination of high-KV brushless motor, 3S LiPo power system, and gear ratio reduction for maximum speed without compromising drivetrain integrity.
- Reduced vehicle weight by 15% through the use of a carbon fiber frame and chassis component substitutions.
- Achieved 150% increase in top speed (from ~8 mph to ~20 mph) while maintaining acceptable thermal and handling characteristics.
- The process of assembling the parts not specifically designed for each other proved to be a challenge, pushing me to improve creative problem solving and critical thinking skills.

## LEADERSHIP & INVOLVEMENT

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### Academic Student Body Executive Board Member— *4 years*

As executive vice president, I was responsible for overseeing significant financial and event planning decisions. Developed strong leadership skills alongside collaborating with peers. I worked on my creative aspect to design posters for both school spirit and campaigning. Provided insight into understanding how a government body functions.

### Cornell University Men's Volleyball Club Treasurer— *Current*

Continued interest in volleyball, working on time management, team building skills, and discipline.

### Chinese Student Association— *Current*

Actively participated in culturally engaging events, learning to appreciate other traditions, find community, and build connections.

### Emmaus Road English Ministry— *Current*

Shared community interest of faith and building upon that.

## AWARDS and SKILLS

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### Seal of Biliteracy- State Officialization in French

- **Languages:** English (Fluent), Korean (Intermediate), French (Intermediate)
- **Programming:** Python, Computer-Aided Design

## INTERESTS

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- **Film, Acting, and Modeling**
- **Classical and Contemporary Music- Piano**
- **Volleyball**