

# Calvin Pham

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## EDUCATION

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### PRINCETON UNIVERSITY

Bachelor of Engineering

Princeton, NJ

Expected May 2026

Major in Mechanical and Aerospace Engineering; Minors in Economics; Certificate in Robotics and Intelligent Systems

Cumulative GPA: 3.37/4.0;

Relevant Coursework: Solids Mechanics; Dynamics, Thermodynamics, Differential Equations, Multivariable Calculus, Physics, Advanced Linear Algebra

### HARPER MIDDLE COLLEGE HIGH

High School Diploma

Charlotte, NC

August 2020 - May 2022

Cumulative GPA: 3.97/4.0; President's List 2020-2021; Dean's List 2022

Relevant Coursework: Calculus, Engineering Design, C++, Public Speaking, Microeconomics

## WORK EXPERIENCE

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### FIRST ROBOTICS TEAM, T-REX 4935

Team President

Charlotte, NC

Aug 2019 – Aug 2022

- Team President (Jan 2022 - Aug 2022), Mechanical Fabrication Lead (Oct 2021 - Aug 2022), Mechanical Fabrication Team Member (Oct 2019 - Aug 2022), Strategist (Aug 2019 - Oct 2019)
- Managed the timeline and design process of 40 - 45 team members through project management and delegation. Served as the face of the team during events and provided a technical understanding of all aspects of the robot and team.
- Maintained the production schedule and trained rookie team members on engineering fabrication from design prints to final product. Tested mechanism, prototyped designs, and assembled chassis to design specification.

## UNIVERSITY PROJECTS

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### FORMULA 1 KEYCHAIN

Jan 2019

- Designed and prototyped a keychain of a Formula 1 in CAD software
- Secondary update allowed for moving axial rotation via 3D printing

## ACTIVITIES

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### PRINCETON RACING ELECTRIC

Mechanical

Princeton, NJ

Sep 2022 – Present

- Worked with vehicle dynamics to develop an understanding of chassis, steering and suspension design
- Assisted in car assembly and composite design

### PRINCETON TRIANGLE CLUB

Assistant Technical Director

Princeton, NJ

Mar 2023 – Present

- Operated spotlights during CAMPALOT reunions show
- Assisted in installing and removing the set in between shows.

### PRINCETON ROVER TEAM

Robotic Arm

Princeton, NJ

Sep 2023 – Present

- Sourcing motors for optimum torque operation of a five degree of freedom arm.
- Designing a five degree of freedom robotic arm aimed to completing dexterity challenges

## ADDITIONAL

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**Technical Skills:** Proficient in SolidWorks, AutoDesk Inventor, NX, TinkerCAD, MATLAB, Java, C++ , R , Mathematica

**Languages:** Fluent in English; Conversational Proficiency in Vietnamese

**Certifications & Training:** OSHA 10-HR General Industry Safety and Health (2019), ACT WorkKeys National Career Readiness Certificate - Platinum Certification (2022)

**Awards:** Questbridge National Match Finalist (2021); Questbridge College Prep Scholars (2021);