

Calvin Pham

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EDUCATION

PRINCETON UNIVERSITY

Princeton, NJ

Bachelor of Engineering

Expected May 2026

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

Cumulative GPA: 3.46/4.0;

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

HARPER MIDDLE COLLEGE HIGH

Charlotte, NC

High School Diploma

August 2018 - 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, Physics, Multivariable Calculus,

PROFESSIONAL EXPERIENCE

PRINCETON TRIANGLE CLUB

Princeton, NJ

Assistant Technical Director

Mar 2023 – Present

- Operated lighting during CAMPALOT reunions show
- Assisted in installing and removing sets between venues and logistics during the tour .

FIRST ROBOTICS TEAM, T-REX 4935

Charlotte, NC

Team President

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

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

PRINCETON RACING ELECTRIC

Princeton, NJ

Mechanical

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 ROVER TEAM

Princeton, NJ

Robotic Arm

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

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

Languages: Fluent in English; Conversational Proficiency in Vietnamese; Elementary Dutch; Learning Korean

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);