

Calvin Pham

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EDUCATION

PRINCETON UNIVERSITY

Bachelor of Engineering

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

Cumulative GPA: 3.54/4.0;

Relevant Coursework: Solids Mechanics; Dynamics, Thermodynamics, Differential Equations, Advanced Linear Algebra, Engineering Design and Simulation, Fluid Mechanics, Aerospace Structures, Fluid Dynamics, Controls

Princeton, NJ
Expected May 2026

HARPER MIDDLE COLLEGE HIGH

High School Diploma

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

Relevant Coursework: Calculus, C++, Public Speaking, Microeconomics, Physics, Multivariable Calculus
Transferred from the previous high school in 2020 to pursue a more rigorous curriculum.

Charlotte, NC
August 2020 - May 2022

PROFESSIONAL EXPERIENCE

PRINCETON TRIANGLE CLUB

Production Manager

- Managing the production timeline of three unique shows, a tour, and an encore performance with a company of 90 - 100 members.
- Duties included communication, logistics, leading meetings, and product management

Princeton, NJ
Feb 2024 - Present

Assistant Technical Director

- Assisted in installing and removing sets between venues and logistics during the company's week-long tour.

Mar 2023 – Feb 2024

FIRST ROBOTICS TEAM, T-REX 4935

Team President

- 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. Served as the face of the team during events with a technical understanding of all aspects of the robot and team.
- Maintained the production schedule and trained team members on the fabrication from design prints to the final product. Tested mechanism, prototyped designs, and assembled chassis to design specification.

Charlotte, NC
Aug 2019 – Aug 2022

UNIVERSITY PROJECTS

FORMULA 1 KEYCHAIN

- Designed and prototyped a Formula 1 car in CAD software with a secondary update that allowed a moving axial with 3D printing

Jan 2019

ACTIVITIES

QVEST MENTORSHIP PROGRAM

- Attended workshops aimed at consulting, product development, and project cycles within media consulting.

Feb 2024 - Apr 2024

PRINCETON RACING ELECTRIC

Mechanical

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

Princeton, NJ
Sep 2022 – Mar 2024

PRINCETON ROVER TEAM

Robotic Arm

- Sourcing motors for optimum torque operation of a five-degree-of-freedom arm.

Princeton, NJ
Sep 2023 – Mar 2024

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), Outstanding Work by a Sophomore in Theater and Musical Theater (2024);