

Calvin Pham

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EDUCATION

PRINCETON UNIVERSITY

Bachelor of Engineering in Mechanical and Aerospace Engineering;
Certificate in Robotics and Intelligent Systems and Optimization, and Quantitative Decision Science

Princeton, NJ
Expected May 2026

Cumulative GPA: 3.57/4.0;

Relevant Coursework: Solid Mechanics; Dynamics, Thermodynamics, Differential Equations, Advanced Linear Algebra, Engineering Design and Simulation, Fluid Mechanics and Dynamics, Aerospace Structures, Control Theory, Game Theory, Optimization, Probability and Stochastic Systems, Microeconomics, Multivariable Calculus.

PROFESSIONAL EXPERIENCE

PRINCETON TRIANGLE CLUB

Production Manager

Princeton, NJ
Feb 2024 - Feb 2025

- Oversaw production timelines for three unique performances, a tour, and an encore, coordinating 90-100 members.
- Led cross-functional meetings, managed logistics, and ensured timely delivery of production elements.

Assistant Technical Director

Mar 2023 – Feb 2024

- Supported set installation/removal across multiple venues during week-long tour; ensured smooth transitions and safety compliances

FIRST ROBOTICS TEAM, T-REX 4935

Team President/Mechanical fabrication Lead

Charlotte, NC
Aug 2019 – Aug 2022

- Directed 40+ team members across design, prototyping, and manufacturing phases for competitive robotics projects.
- Acted as technical spokesperson; ensured delivery aligned with event deadlines and competitive specifications.

UNIVERSITY PROJECTS

WING DESIGN PROJECT

Apr 2024 - May 2024

- Led 8-member team in designing and testing a structural wing to support high tip-loads; delivered design report and prototypes.

SEARCH AND RESCUE ROBOT

Sep 2024 - Present

- Leading design/manufacture of an autonomous robot to complete obstacle traversal and payload delivery; developed project schedule and milestones

ACTIVITIES

QVEST MENTORSHIP PROGRAM

Feb 2024 - Apr 2024

- Participated in workshops on product development, media consulting, and client-facing strategy cycles.

PRINCETON RACING ELECTRIC

Princeton, NJ
Sep 2022 – Mar 2024

- Contributed to vehicle dynamics, chassis design, and composite fabrication; assisted with rocker arm assembly.

PRINCETON ROVER TEAM

Princeton, NJ
Sep 2023 – Mar 2024

- Sourced and tested high-torque motors for a robotic arm with a 5-DOF (Degrees of Freedom) design

ADDITIONAL

Technical Skills: SolidWorks, AutoDesk Inventor, NX, TinkerCAD, Creo, 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: President's List (2020); Questbridge National Match Finalist (2021); Questbridge College Prep Scholars (2021); President's List (2021); Dean's List (2022); Outstanding Work by a Sophomore in Theater and Musical Theater (2024);