

Abhinav Ambalam

Class of 2026

Prosper High School

Abhinav Ambalam

Prosper, Texas

(469)-837-0909

abhiambalam2008@gmail.com

I'm a driven and curious high school sophomore passionate about engineering. From designing structures to solving complex problems, I thrive on challenges that require creativity and critical thinking. My ultimate goal is to pursue a career in engineering where I can leverage my skills and passion to innovate and make a meaningful impact on the world. I'm excited about the endless possibilities that engineering offers!

Skills

- 5.0/6.0 GPA Weighted
- 3.97/4.0 GPA Un-Weighted
- Proficient in CAD design, mechanical fabrication, and assembly techniques.
- Certified in Adobe Photoshop
- Certified in Adobe Illustrator
- Certified in Adobe Premiere Pro
- Proficient in AutoDesk Inventor and Fusion360
- Proficient in OnShape
- Strong analytical skills to troubleshoot and resolve various issues efficiently.
- Excellent communication skills to collaborate effectively with different sub-teams

Education

Prosper High School / Diploma

AUGUST 2023 - PRESENT, PROSPER, TX

2023 - 2024(Sophomore Year):

- CORE CLASSES: Honors Algebra 2, Honors English 2, Honors Chemistry, AP World History
- ELECTIVES: AP Biology, Honors French 3, Honors Aerospace Engineering

Rock Hill High School / Diploma

AUGUST 2022 - AUGUST 2023, FRISCO, TX

2022 - 2023(Freshman Year):

- CORE CLASSES: Honors Algebra 1, Honors English 1, Honors Biology, Honors World Geography
- ELECTIVES: French 1, Principles of Audio & Video Production, Digital Arts & Animation, Outdoor Education

Extracurriculars & Volunteering

The Financial Literacy Initiative/ High School Intern

JUNE 2024 - PRESENT, PROSPER, TX

As an intern, I will be responsible for assisting with day-to-day tasks, such as conducting research, and creating content, and will have the opportunity to gain hands-on experience in financial literacy education and contribute to our mission. As part of The Financial Literacy Initiative, I am in charge of increasing financial literacy in my local city.

Prosper High School Hack Club/ Media Manager

MAY 2024 - PRESENT, PROSPER, TX

As the media manager for Hack Club, I promote and market the club through social media, posters, and other promotional material. I am also the official admin of the Instagram account alongside the President.

Prosper Engineering Team / Mechanical Veteran

SEPTEMBER 2022 - PRESENT, PROSPER, TX

Design and Prototyping:

- Led the mechanical design process using CAD software, OnShape.
- Developed prototypes for critical robot components and mechanisms.
- Collaborated with the team to brainstorm and evaluate design concepts.

Fabrication and Assembly:

- Oversee the fabrication of robot parts using tools such as CNC machines, lathes, mills, and 3D printers.
- Guided rookies through assembly processes, teaching them proper techniques and safety practices.

Integration and Testing:

- Worked closely with the electrical and programming teams to integrate mechanical systems with electronics.
- Conducted thorough testing of mechanical components to ensure reliability and performance.

Mentorship:

- Mentored rookie members, providing training on tools, techniques, and best practices.
- Shared knowledge and experience to help the team continuously improve.

Lion's Heart Volunteering / President & Vice-President

MARCH 2023 - MARCH 2024, PROSPER, TX

1st Semester - Vice-President

- Support to the President
 - Assisted the President in setting the vision and strategic direction for the chapter.
 - Helped plan and facilitate chapter meetings, ensuring they were organized and productive.
 - Stepped in to lead meetings and represent the chapter

in the President's absence.

- Communication
 - Assisted in maintaining clear and consistent communication with chapter members.
 - Helped prepare and distribute newsletters, meeting agendas, and other communications.
- Project Management
 - Oversee the planning, coordination, and execution of community service projects and events.
 - Ensured projects align with the chapter's mission and goals and meet community needs.
- Administrative Duties
 - Helped maintain accurate records, including membership data, meeting minutes, and project reports.

2nd Semester - President

- Leadership and Vision
 - Set the vision and strategic direction for the chapter, ensuring alignment with Lions Heart's overall mission.
 - Inspired and motivated chapter members to engage in meaningful community service activities.
- Meeting Facilitation
 - Planned and presided over regular chapter meetings, ensuring they were productive and organized.
 - Prepared agendas, led discussions, and ensured all voices were heard during meetings.
 - Delegated responsibilities and follow up on action items to ensure tasks are completed.
- Communication
 - Maintained clear and consistent communication with members, keeping them informed about upcoming events, opportunities, and organizational updates.
- Project Coordination
 - Oversee the planning and execution of community service projects and events.
 - Ensure projects meet the needs of the community and provide meaningful experiences for volunteers.