

Samir Patel

First Year Engineering Student

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SUMMARY

As a dedicated Purdue University student, I am actively developing a solid foundation in core engineering principles, with a particular focus on gaining proficiency in tools like CAD and Excel. Through hands-on coursework and practical projects, I am honing my ability to create detailed engineering designs and effectively analyze data to inform strategic decisions. My goal is to apply these technical skills to real-world engineering challenges, where I can combine precision in design with efficient processes to optimize outcomes. I am passionate about using data-driven decision-making to solve complex problems and contribute to innovative solutions that have a tangible impact in the field of engineering.

EDUCATION

B.S. in Mechanical Engineering– 2028

Purdue University, West Lafayette, IN

PROFESSIONAL EXPERIENCE

Purdue College of Engineering

December-Present

Undergraduate Teaching Assistant

- Collaborated with students during class to address questions and provide guidance on programming concepts, helping them overcome challenges and deepen their understanding. Hosted in-person office hours to offer one-on-one support, clarify concepts, debug code, and provide tailored assistance. Graded assignments to ensure fairness and deliver constructive feedback, supporting skill improvement. Fostered a collaborative learning environment that enhanced both technical expertise and communication abilities.

Hopmeadow Country Club, Simsbury, CT

March 2024- August 2024

Team Member

- Worked alongside the Country Club President to oversee daily operations, including employee scheduling and shift management, to ensure efficient and seamless facility performance. Partnered with local organizations to plan and execute fundraisers and charity events, fostering strong community relationships. Managed and maintained weekly schedules, ensuring timely completion of major tasks and smooth coordination of day-to-day activities.

US Soccer Federation, New Hartford, CT

March 2020- August 2023

Soccer Referee

- Officiated soccer matches with a focus on rule compliance, player safety, and maintaining game integrity. Mediated on-field disputes and made prompt, accurate decisions to ensure fairness and control during gameplay. Managed high-pressure situations in competitive tournaments, earning recognition for professionalism and consistent judgment. Led training programs for new referees, providing instruction on essential officiating skills and fostering adherence to game standards.

SKILLS

SolidWorks, Fusion 360, MATLAB, Python Programming, C Programming, Microsoft Excel, MiniTab, Air Shaper Aerodynamic Analysis, Ansys Fluent Analysis