

Sachin Gokhale

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Education

University of Illinois at Urbana-Champaign

Expected Graduation May 2026

Bachelor of Science in Mechanical Engineering | Minor in Statistics

GPA: 3.70

Work Experience

Alcon Laboratories

Atlanta, GA

Equipment Engineering Co-op

January 2024 – May 2024

- Managed a \$100,000 project of executing a retrofit across all production lines in an effort to reduce motor failure. Coordinated with engineers and mechanics to guarantee a precise and accurate fitting of the retrofits. Developed a detailed installation schedule factoring several elements such as maintenance schedules, technician availability, and supplier delivery times. Result of projected \$250,000 yearly cost savings along with a 30% reduction in motor failure across all manufacturing lines.
- Utilized Solidworks to develop a series of components capable of performing a variety of tasks. Developed a mount to hold lasers into 2 different orientations while abiding by set of strict parameters. Redesigned a washable and features on the table into a more organized and intuitive layout. Attained feedback from technicians to implement into 3D design, resulting in an enhanced technician work experience.
- Leveraged MiniTab to perform a Gage R&R study to evaluate the accuracy of a temperature calibration system by analyzing potential variations (temperature, operators, calibration sequence, etc.) as these are what typically cause out of tolerance events
- Strengthened my soft skills such as communication, problem solving, project management, time management and several others through various smaller projects worked on through the semester.

Department of Aerospace Engineering Octocopter Research Project

Champaign, IL

UIUC Undergraduate Research Assistant

January 2023 – August 2023

- Designed and optimized critical components using Creo Parametric, resulting in an approximate 20% reduction in overall octocopter weight while maintaining structural integrity.
- Led collaborative efforts with mentor and fellow research assistants to fabricate the core frame of the octocopter ensuring precise construction and adherence to project timelines.
- Utilized advanced 3D printing and manufacturing techniques enhancing the structural integrity of the Octocopter.

Extracurricular Activities

Illinois Consulting Group

Champaign, IL

Staff Consultant

September 2023 – Present

- Conducted research into various marketing methods such as digital, social media, and search engine marketing. Analyzed each of the methods to formulate a marketing plan best suited for the client and their target market. Presented findings in a clear and concise presentation tailored to the clients best interests.
- Administered surveys to investigate and collect data on target market's needs and their views on our client's products. Organized and led internal team meetings to discuss our findings and collaborate on our weekly goals prior to client meetings.

American Society of Mechanical Engineers

Champaign, IL

Mechanical Engineer(Design)

August 2022 – May 2023

- Designed and successfully prototyped a tank steering system for a robot using Autodesk Fusion 360, resulting in increased maneuverability and stability.
- Utilized advanced 3D printing techniques, reducing robot component's required manufacturing time by roughly 40%.

National Organization of Business and Engineering

Champaign, IL

Senior Consultant

January 2023 – May 2023

- Conducted competitor research to develop an accurate pricing model for a client in the Safety in Manufacturing Industry
- Communicated with client to identify and implement best practices aligned with their needs and long-term aspirations, leading to improved client satisfaction. Presented findings to client through a presentation.

Illinois Space Society

Champaign, IL

General Member and MicroG Engineer

August 2022 – December 2022

- Collaborated on the ideation and prototyping of a mechanical tool capable of functioning in a zero-atmosphere environment.
- Gained hands-on experience in the design and fabrication of mission critical components, enhancing skills in 3D designing.

Awards and Recognitions

University of Illinois Urbana Champaign Dean's List

May 2023

Super User SEEQ Certification

March 2024

Eagle Scout - Boy Scouts of America

April 2022

2022 Engineering Scholarship - Distinct Engineering Solutions, Inc.

June 2022

Technical and Soft Skills

SolidWorks|Fusion 360|Creo Parametric|SEEQ|Python(I) |Java(I)|C++(I)|Microsoft Office Suite|Project Management| Problem Solving

Interests and Hobbies

Product Management | Entrepreneurship | Design | 3D Printing | Rock Climbing | Running | Texas Hold'em