

Jayesh Patel

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EDUCATION

North Carolina State University: Raleigh, North Carolina 2016-2020

- **Major:** Chemical Engineering Nanoscience Concentration
- **Minor:** Material Science and Engineering
- **GPA:** 3.653

EXPERIENCE

University Tutoring Center: Chemistry and Mathematics tutor 2017-Present

- Mentor Tutees in individual and group sessions.
- Design quizzes and homework questions and the Tutoring session structure.
- Manage a busy room of 10-20 students with 2 other colleagues.
- Helped improve one of my tutees score by 21%.

Research Experiences:

- Flow Chemistry research in Microfluidics with Dr. Abolhasani. 2017-Present
 - ▲ Investigate how to create switchable solvents and their applications in green chemistry.
 - ▲ Learning MATLAB to analyze the results.
- Google Earth Project (GEP) with Dr. Paciulli. 2016-2017
 - ▲ Formulated Excel to calculate area using data from Google Earth.
 - ▲ Programmed Google Earth Engine to use satellite imagery and compile data for deforested areas.

Sci-Bridge: 2016-Present

- Team working experience designing various portable Material Science experimental kits which are sent to East Africa to promote science education.

High Powered Rocketry: 2016-Present

- Constructing and Launching rockets to compete in the student launch challenge by NASA.
- Professional writing experience by editing and presenting reports to NASA.

LEADERSHIP:

AICHE (American Institute of Chemical Engineering): ChemE Car Chair 2018-Present

- Led a team of 16 members to develop a car that runs on a pressure chemical reaction.

Cary Teen Council: Programming Chair 2015-2016

- Lead an organization of 900+ teens who volunteer to help the community.
- Organize conferences for North Carolina Youth Council, a union of all teen councils from North Carolina.
- Organized and lead volunteering events as a Lead teen for the Cary Teen Council.

COMMUNITY SERVICE

- Volunteering for Key Club 2014- Present
- Cary Teen Council: 300+ hours of service 2014-2016
- Wake County Public Library: 140 hours of volunteering 2014-2016
- Tutoring Club: Helping as a tutor for Math and Chemistry 2014-2016

SKILLS

- Proficient in English, Gujrati, Hindi, Sanskrit, and Urdu.
- Certified in Microsoft Word and PowerPoint.
- CPR and AED Certified.
- Basic knowledge of programing in C++ and Linux.