

# Meera Patel

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## EDUCATION

### University of Illinois at Urbana - Champaign

*James Scholar Honors Program*

Major : Bachelor of Science in Mechanical Engineering

Minor : Computer Science

*Expected Graduation: December 2025*

*GPA:3.66*

### Hoffman Estates High School

High School Diploma

*Richard C. Kolze Achievement Award*

*August 2018 - May 2022*

*GPA:3.9/4.9*

## SKILLS

Language : Gujarati, English  
Advanced : AutoDesk Fusion 360  
Intermediate : Python, MatLab  
Basic : Java, PTC Creo Parametrics, Ansys

## WORK

### Undergraduate Research

*Research Assistant*

*January 2023 - Present*

- Working under Dr.Philip Ansell on a NASA funded project to 3-D print a prototype frame for a vertical liftoff aircraft, with dimensions of 5ft by 8 ft by printing multiple cross sections with dimension of 9 in by 9 in
- Specifically are focusing on printing the component in which the motor and engine will be placed.
- Using PTC Creo and Cura Ultimaker to develop prototype
- Joining components to replicate the full frame design that will be ultimately tested in a Mac .3 wind tunnel.

### Undergraduate Research

*Research Assistant*

*January 2023 - Present*

- Learning Ansys engineering simulation and 3D design software with Ph.D. candidate Yogi Patel
- Simulating multiple airfoils to understand aerodynamic design by reducing drag and separation bubbles

### i-MADE

*Project Manager*

*August 2022 - Present*

- Working in a team to build a smart balance board capable of providing patients and physical therapists with feedback to help with ankle therapy.
- Solely developed the CAD design of the board using Fusion 360
- Manufacturing smartboard first prototype using 3D printing and CNC Machining

### Eye Level Learning

*Mathematics Teacher*

*November 2021 - February 2022*

- Taught fundamental math skills to elementary students on a weekly basis
- Planned lectures and facilitated group discussion among students
- Maintained front desk on occasion as well as aided with the maintenance of the facility

## LEADERSHIP AND ACTIVITIES

### Business Professionals of America (BPA)

*Head Coordinator*

*August 2019 - May 2022*

*Schaumburg, IL*

- Operated a team of 8 members in a competition held by the organization BPA in the Parliamentary Procedures Team event
- Organized team meetings and trained new members in presentation skills
- Strengthened quality of presentation leading my team to the National Leadership Conference (NLC)

### International Swaminarayan Satsang Organization (ISSO)

*Head Dance Coordinator*

*November 2018- Present*

*Itasca, IL*

- Acted in a management role by planning logistics of the dance performances in ISSO's annual Cultural Showcase
- Managed multiple dance teams & organized practices for each team
- Developed choreography and soundtracks for on average five dance performances each year
- Represented the dance portion of the cultural showcase in the ISSO Cultural Showcase Committee

## AWARDS AND ACCOMPLISHMENTS

### Business Professionals of America (BPA)

- **First at State** Business Professional of America Contest in Parliamentary Procedures
- **Fifth at National** Business Professional of America Contest in Parliamentary Procedures

*February 2019/2022*

*May 2018*

### College Board

- AP Scholar with Distinction

### State of Illinois

- Illinois State Scholar