

# PAREEN MHATRE

PII

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## EDUCATION

- University of Iowa, B.S.E. in Biomedical Engineering, Minor in Business Administration, Expected Date of Graduation: Fall 2022
- Iowa City West High School, class of 2018 (Honors)
- Kirkwood Community College (2017-18)

## VOLUNTEER ACTIVITIES

- **The Biomechanics of Soft Tissues (BioMOST) Lab**, Iowa City, IA — Jan 2019 – present  
*Undergraduate Research Volunteer*
  - Constructing a 3D model for coarctation of heart for stent repair with team
  - Studying relationship of blood and viscosity
  - Co-designed a 3D model mechanism to connect face shield to baseball cap for the University of Iowa baseball team
  - Edited website content and produced introductory video as a support team member for braceproject.org, a COVID-19 initiative
  - Dissected pig heart to conduct biaxial and uniaxial testing in order to determine mechanical capabilities of heart
- **Iowa MADE**, Iowa City, IA — July 2020 — Oct 2020  
*Student Volunteer*
  - Assembled and cleaned various parts of face shield for COVID-19 PPE
  - Tested, packaged and distributed face shields as member of production and manufacturing team
- **University of Iowa Hospitals & Clinics**, Iowa City, IA — Oct 2017-Mar 2020  
*Volunteer*
  - Volunteered in Patients' Library, Children's Patients' Library, and Mother & Baby Care Unit
  - Performed administrative tasks, such as stocking rooms and supplies, comforting newborns, transporting and helping patients, cleaning and organizing unit surfaces and closets
  - Trained and mentored new volunteers
- **Lear Lab**, Iowa City, IA — May 2017 – July 2017, June 2018 – August 2018  
*Summer Research Volunteer*
  - Collected and analyzed data by using MATLAB and Microsoft Excel
  - Loaded drosophila melanogaster in behavior boards, created crosses between different genotypes for purposes of experimentation regarding circadian rhythm
  - Trained lab volunteer to run experiments, use and care of equipment, and analyze data

## EXTRACURRICULAR ACTIVITIES

### University of Iowa, Iowa City, IA

- **Indian Student Alliance**, Iowa City, IA— Aug 2018-Present  
*Vice President of Community Outreach, Photographer, Committee Member*
  - Established relationships with local businesses and partnered with student organizations
  - Developed and updated student organization website; photographed and edited board images, various event images
  - Managed and oversaw board sponsorship activities
  - Planned and hosted national South Asian a cappella competition with committee
- **Women in Science and Engineering, Society of Women Engineers**, Iowa City, IA — August 2018-Present  
*Mentee, Mentor*
  - Mentored new College of Engineering students by aiding their transition, providing resources, and fostering a welcoming environment
  - Brainstormed and executed ideas for mentee-mentor social events
- **The Backpack Project** – Iowa, Iowa City, IA— Jan 2019-May 2020  
*Volunteer, Director of Community Outreach*
  - Tutored and supported students with learning from 4<sup>th</sup> grade to high school in mathematics
  - Organized university-wide prep book drive to donate to local high schools

### West High School, Iowa City, IA

- **FIRST Tech Challenge (FTC) Robotics Team** – Iowa, Iowa City, IA— 2014-2016
- **FIRST Robotics Competition (FRC) Robotics Team** – Iowa, Iowa City, IA— 2017-2018
- **West High School Student Senate** – Iowa, Iowa City, IA— 2015-2018  
*Student Government Senator*
- **West Side Story school news magazine (print and online)** – Iowa, Iowa City, IA— 2016-2018  
*Staff Photographer (2016-2017), Managing Editor & Photo Editor (2017-2018)*
- **West High Novice and Varsity Policy Debate Team** – Iowa, Iowa City, IA— 2015-2017
- **West High School Principal's Advisory Council** – Iowa, Iowa City, IA— 2017-2018

## AWARDS & RECOGNITIONS

- **FIRST Tech Challenge (FTC) Robotics Team**
  - First Tech Challenge robotics team Control Award (January 2015)
  - First Tech Challenge robotics team Inspire Award (January 2016)
- **Junior Engineering Technical Society & Tests of Engineering Aptitude, Mathematics and Science**
  - Placed in the top 10 in the nation for essay about optogenetics (June 2016)
- **West High Varsity Policy Debate Team**
  - Semi-finalist in Kennedy state tournament (September 2016)

- **West Side Story school news magazine (print and online)**
  - Journalism Education Association (JEA) at Indianapolis - Online News Package competition “Superior” (highest level) rating (November 2016)
  - The National Scholastic Press Association (NSPA) Online Pacemaker news team finalist (2017) (<http://studentpress.org/nspa/awards/2017-online-pacemaker-winners/>)
  - Iowa High School Press Association (IHSPA) All-Iowa news team finalist (2017) (<https://www.ihspa.org/4921/showcase/ihspa-all-iowa-news-teams-announced/>)
- **Science Olympiad**
  - State finalist - Game On event 3rd place (March 2017)
  - State finalist - Microbe Mission event 2nd place (March 2017)
- **FIRST Robotics Competition (FRC) Robotics Team**
  - Ranked 5<sup>th</sup> seed in Iowa Regionals (2018)
  - Competed in FRC World Championship in Detroit, MI (2018)

## **OTHER AWARDS**

- National French Contest Level III 9th place in Iowa, 21st place in USA (May 2016)
- AP Scholar (August 2016)
- National Honor Society (March 2017-2018)
- AP Scholar with Honor (July 2017)
- Hills Bank Iowa Youth Salute leadership candidate (September 2017)
- Silver Cord Volunteering Award: 200+ hours of volunteering (January 2018)

## **COMMUNITY SERVICE & OTHER VOLUNTEER ACTIVITIES**

- Iowa City Public Library (2013-2015)
- Iowa City Summer of the Arts (2015-2016)

## **SKILLS**

- Programming: C++, Java, Python
- Technical Applications: Creo Parametric, MATLAB, Mathematica, Microsoft Office Suite, R, HTML
- Other Applications: Adobe Photoshop, Adobe Lightroom, Adobe InDesign, Adobe Illustrator, Microsoft Office Suite, Logger Pro
- Languages: English, Marathi, French, Hindi