Matthew Zhang

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EDUCATION

University of Illinois at Urbana-Champaign   *Expected Graduation 2024*
Bachelor of Science in Mechanical Engineering
Centennial High School 4.72 GPA   *2016-2020*
Ellicott City, Maryland

WORK EXPERIENCE AND VOLUNTEERING

FIRST Tech Challenge Robotics Mentoring   *2020-Present*
- Led training sessions for a group of 8 on robotics skills such as Fusion360 CAD
- Advising robot design decisions and providing expertise throughout the season

LEGO Robotics Tutoring   *2020 Summer*
- Tutored an elementary schooler on programming LEGO MINDSTORMS robots

Johns Hopkins Applied Physics Laboratory Intern   *2018-2019*
- Developed Hololens augmented reality visualization for paratrooper motion capture data
- Created visualization using Unity3D, C#, and MATLAB scripts

ACTIVITIES

iRobotics   *2020-Present*
- Designing a 30lb combat robot to compete at a competition held by iRobotics
- Leading the Freshman Combat Robotics chassis design team

Illini Solar Car   *2020-Present*
- Sketching and modeling components of a solar-powered car as a member of the mechanical sub-team

Science Bowl   *2017-2020*
- Played on a team of five in jeopardy-style science trivia competition matches
- Won Maryland state championship and attended national competition in 2019

Science Olympiad   *2016-2020*
- Competed in science-related events such as Circuit Lab, Hovercraft, and Wind Power
- Achieved 1st in Mission Possible, Write it Do it, and Boomilever events, 2nd in Circuit Lab at 2019 Maryland state competition

FIRST Tech Challenge Robotics Competition   *2015-2020*
- Modeled, manufactured, and programmed a robot for a yearly robotics competition
- Coordinated Solidworks CAD design and programming efforts as leader of team 9866 from 2015-2020
- Qualified for world competition as the 2020 Maryland State Finalist

SKILLS

Computer Aided Design
Certified Solidworks Professional, PTC Creo, Autodesk Inventor, Fusion360
Software
Java, C, C#, and MATLAB programming
Other Experience
Robotics, electronics and microcontroller programming, 3D printing, and CAM/CNC machining