

Ray Zeng

Address: 104 Antler Point Dr.,
Wexford, PA 15090
Cell: (724) 759-8523
Email: zengrayc@gmail.com

EDUCATION

North Allegheny High School

GPA: 4.53/5.0 ACT: 36/36/36 PSAT: 1520/1520

STEM COURSEWORK: AP CALC BC, AP STATISTICS, AP PHYSICS 1,
AP PHYSICS 2, AP COMPUTER SCIENCE PRINCIPLES

EXPERIENCE

10/2022-

Current

FIRST Tech Challenge: (Team 22312)

- Team Captain of the 2025 season
- Lead Mechanical Designer: 4-person team
- Won 2nd place at the Pennsylvania state championship
- Completed season globally ranked #30 (8000 teams)
- Invited to the Maryland Tech Invitational: all-star tournament, Global top 40 teams selected
- 17-25 hrs/week

FIRST Robotics Competition: (team 8393)

- Key mechanical designer and human player
- Qualified for the FRC World Championship 2025
- Team: Impact award (volunteering)
- 5 hrs/week

DECA: Business Competition

- Regional First place
- 9th Place at state competition
- 100 hrs/year

Volleyball

- **Pittsburgh Elite Volleyball**
 - Competed at the U16 AAU Boys National Championship
- **North Allegheny Volleyball Team**
 - Junior Varsity
03/2024-05/2024
 - Varsity
 - Team ranked top 3 in state - highly selective
03/2025-05/2025

SKILLS

- Mechanical Design & CAD: extensive experience in 3D modeling (Fusion 360); experienced in designing robot subsystems (grabbers, lifts, extensions, drivetrains)

- Fabrication & Tools: Skilled in woodworking and metalworking; operate chop saws, bandsaws, drills, and hand tools.

- Mechanical Systems: Experienced in motion transfer, drivetrains, and mechanical assembly.

- Electrical Systems: Competent in robot wiring, sensors, and power distribution.

- Materials & Prototyping: Knowledgeable in using aluminum, polycarbonate, wood, steel, carbon fiber, and 3d print filament.