

ENGINEERING TECHNOLOGY

MR. WILLIAM RICHMAN (AVID DISNEY ENTHUSIAST)

- I'D LIKE TO INTRODUCE MYSELF AND EXPLAIN WHY I THINK ENGINEERING OR TECHNOLOGY IS A GREAT FIELD FOR YOUR CHILD TO LOOK INTO.



- I'VE BEEN TEACHING THIS PROGRAM SINCE 2015! IVE HAD FORMER STUDENTS GO ON TO BE COMPUTER SCIENCE MAJORS, MECHANICAL & NUCLEAR ENGINEERS, AND CNC MACHINISTS.
- THE AVG SALARY FOR ENGINEERS IS OVER \$60,000 A YEAR OR FOR CNC MACHINISTS OVER \$20 AN HOUR.



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9TH GRADE

Intro to Engineering

- Design Process
- Computer Aided Drafting
- Hand Drafting
- 3D Printing
- Drones

10TH GRADE

Principles of Engineering

- Simple Machine Design
- Hydraulics
- Bridge Design
- Robotics
- Electronics

11TH GRADE

Computer Integrated Manufacturing

- 3D Printing
- Laser Cutting/Engraving
- CNC Machining
- 3D Laser Scanning
- Advanced Robotics

12TH GRADE

Engineering Design & Development (Capstone)

- Independent study (past students have created)
 - T-shirt Cannons
 - Models of their own theme park attraction,
 - Websites (etc.)



Indiana Technology Student Association

Learning to Lead in a Technical World

Mission Statement: The Technology Student Association enhances **personal development, leadership, and career opportunities** in STEM, whereby members apply and integrate these concepts through extracurricular activities, competitions, and related programs.

NOTE: You do not need to be taking any STEM classes nor have any experience in STEM topics to become a member of the TSA.

Technology Student Association Activities Include

- State and National Competitions
- Bi-Annual Trip to Walt Disney World
- Super Mileage Competition
- Fundraisers for the Club and Charity
- Community Service
- Tailgate Kick-Off Party
- Pi-day Celebration
- TSA Movie Nights
- TSA Game Nights
- Christmas Party
- End of Year Banquet
- Field Trips
- Guest Speakers
- Etc.

