

ENGINEERING

MR. ALLEN

MR. GREENE



I am Chris Greene

I am Brad Allen

Email: crgreene@fcps.edu

Email: bgallen@fcps.edu

Characteristics of the Course

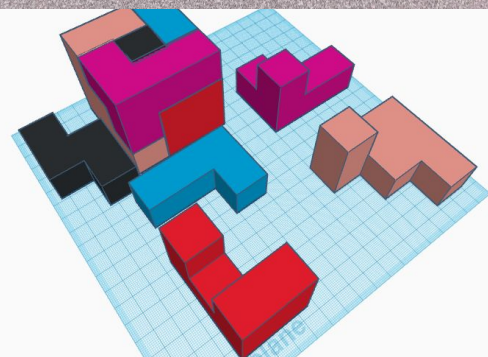
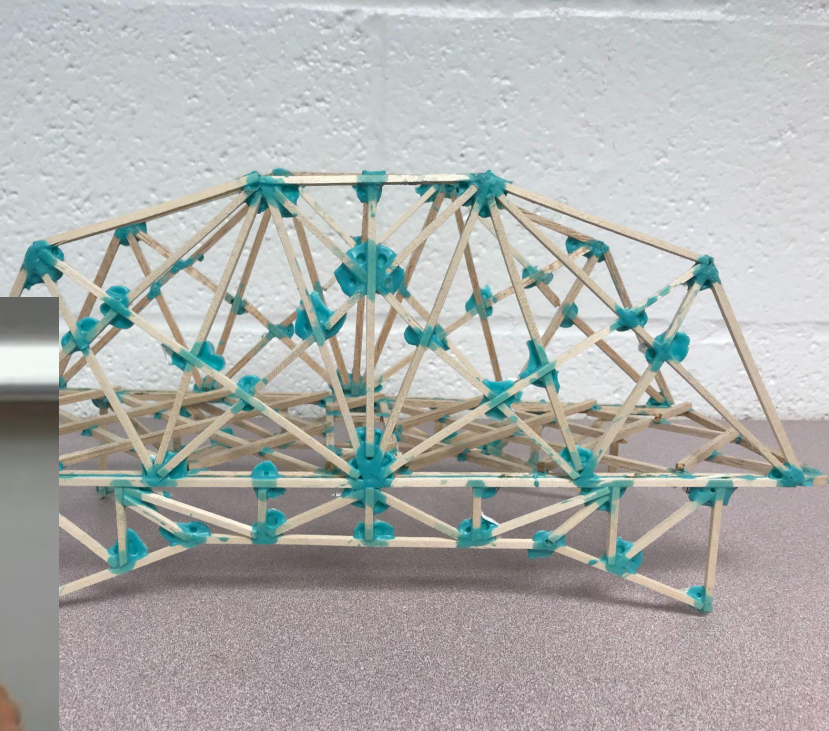
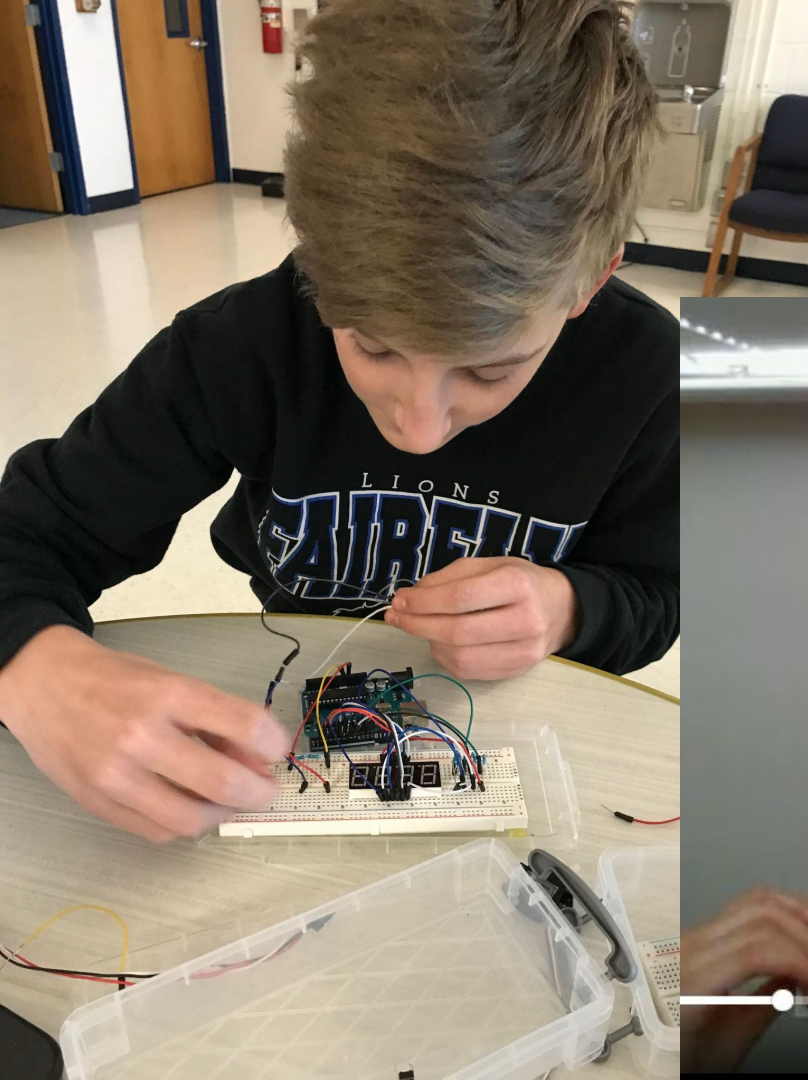
- Semester long courses
- Using the engineer design process
- Hands on learning
- Creativity
- Critical thinking
- Individual and group projects

Engineering 1:

Engineering 1: Design and Modeling

- Engineering Design Process
- Rube Goldberg Machines
- 2D/3D Drawing
- CAD
- 3D Printing
- Structures/Bridges
- Air and Space (rocket)
- Arduinos

From curriculum map from FCPS for each class based on the the Virginia CTE standards.



Engineering 2:

6

Engineering 2 Design and Modeling

- Battlebots
- CAD Drawing (Castle Project)
- Fabrication Lab Competency (Scroll Saw Name)
- CO2 Cars
- Laser engraved puzzle
- Theme Park Attraction

From curriculum map from FCPS for each class based on the the Virginia CTE standards.

