School Presentations

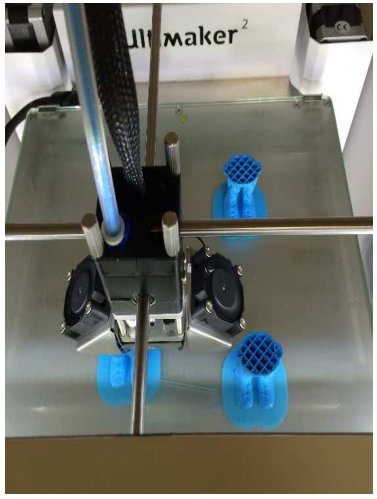
Florida IT Career ALLIANCE

Maclay School Makerspace

- With our funds, we chose to build a Makerspace.
- The hope has been to use this as the foundation for our technology program in the upper school.

Contents

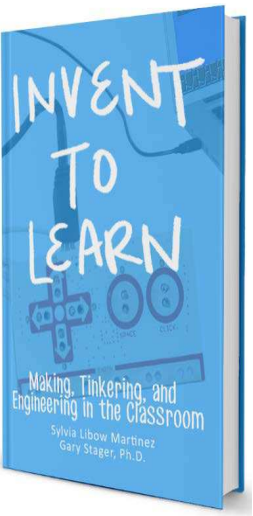
- Ultimaker2
- 2 Work benches
- Hand tools
- Power Tools
- Soldering Station
- 10 Arduinos

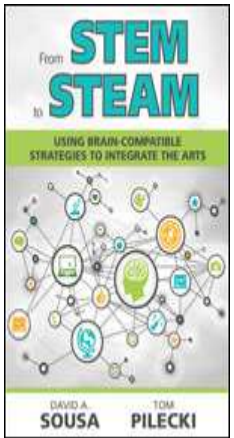


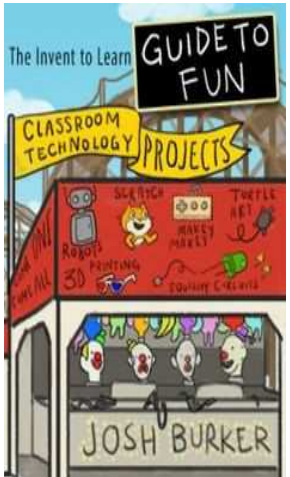
EDUCATION • CHARACTER • LEADERSHIP

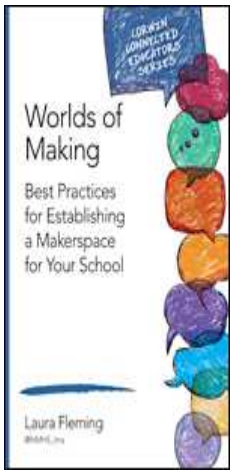
PINE CREST INNOVATION INSTITUTE

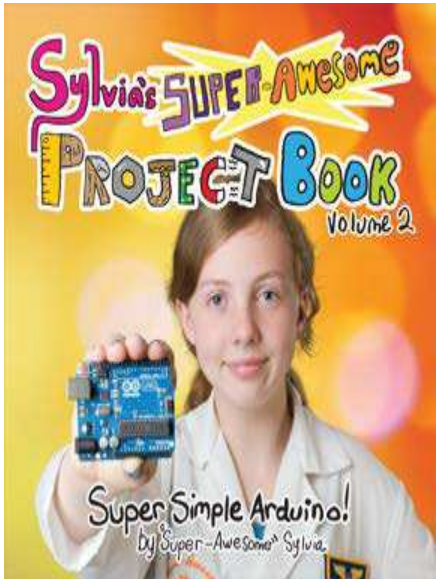
- Last week, I went to Ft. Lauderdale and attended the Innovation Institute at Pine Crest School
- I attended seminars on MaKey MaKey, Arduino, building Makerspaces, Lego WeDo, Brain-Based Learning











Mosley IT Academy

Lynn Haven, Florida

Choice to Promote Academy

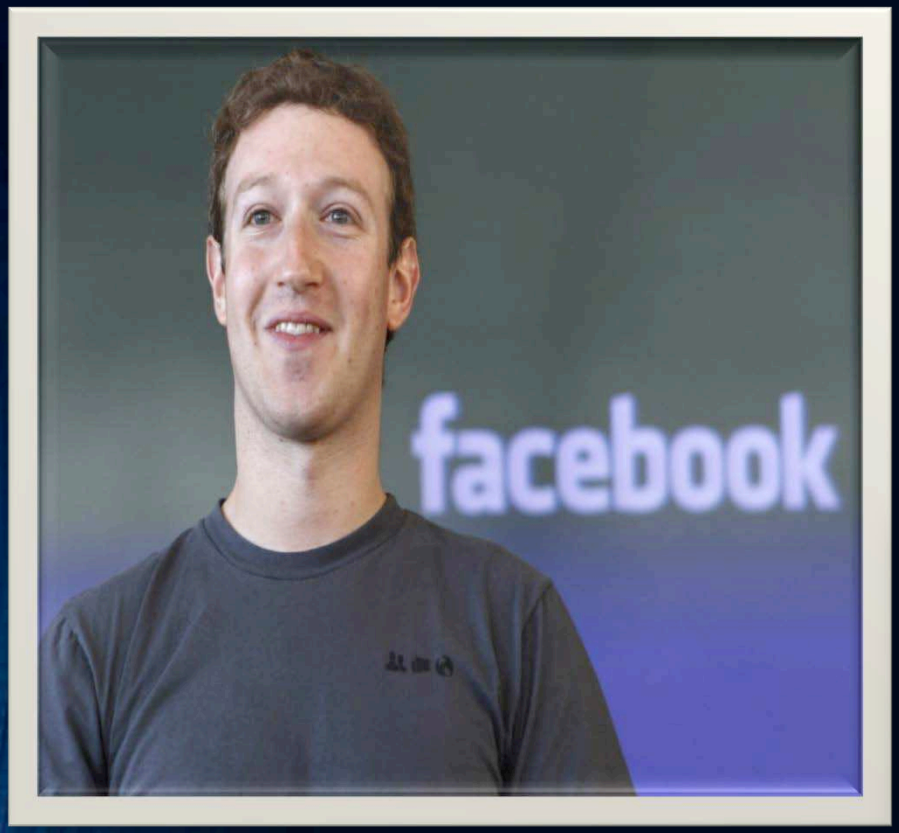
- Brochure – only reaches a few people (parents or students).
- Mail out – only reaches a very limited number of people who are mailed to.
- **WEBSITE** – *Reaches unlimited number of people with unlimited amount of information that can be kept current.* ← ← ← OUR CHOICE

Mosley IT Academy

- Lynn Haven, Florida

TSA

LEAVING A LEGACY IN EMPOWERED, INTELLECTUAL TEENS FOR A BRIGHT TECHNOLOGICAL FUTURE



Mark Zuckerberg

Chad Meredith Hurley

What is TSA?

- TSA is the Technology Student Association
- TSA allows you to focus on various forms of technology based on your interests
- There are a plethora of subjects you can choose from:
  - Biology Design
  - Engineering Design
  - Video Game Design, Computers
  - Promotional Graphics
  - Video Projects
  - Architectural Projects

Leadership Conference

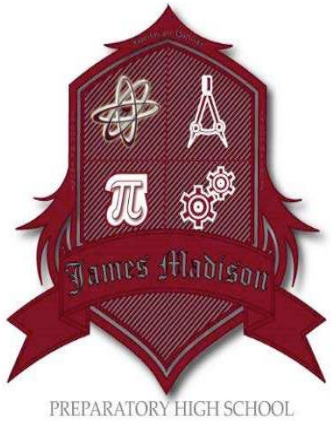
- President – Siddu Dussa
- Vice Presidents – Hailey Algoe, Chamara Gunaratne
- Secretaries – Melisa Tabtimtong, Vivian Zhou
- Treasurer – Tulsi Patel
- Reporter – Cayle Gao
- Sergeant-In-Arms – Umar Qureshi

Students network and collaborate Students meet other students from around the state.

Chiles placed 7th as a whole in the TSA Competition

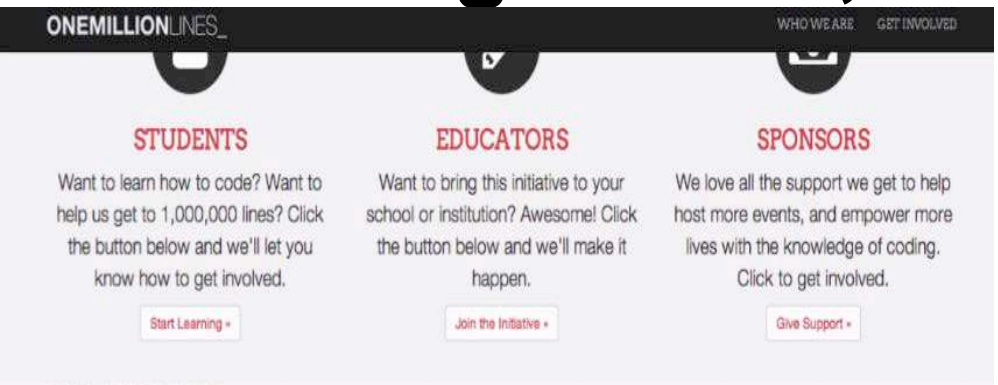
FITC provided mentors for the students; Friday Work Days

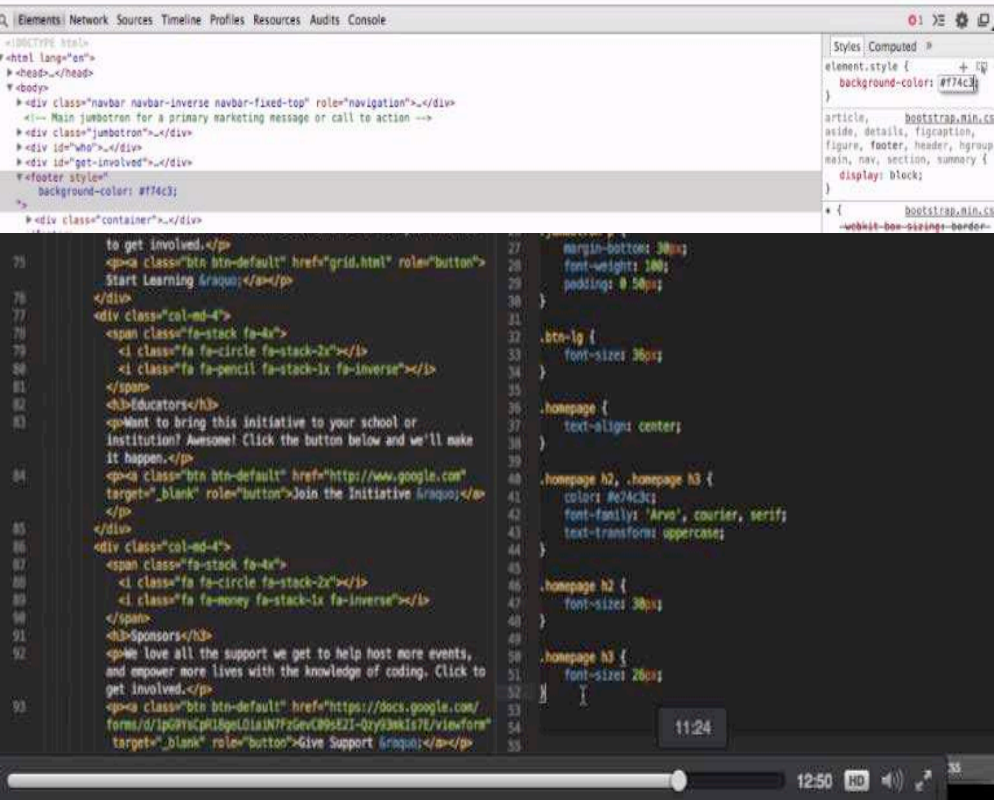
2015 FITC
Summer Workshop

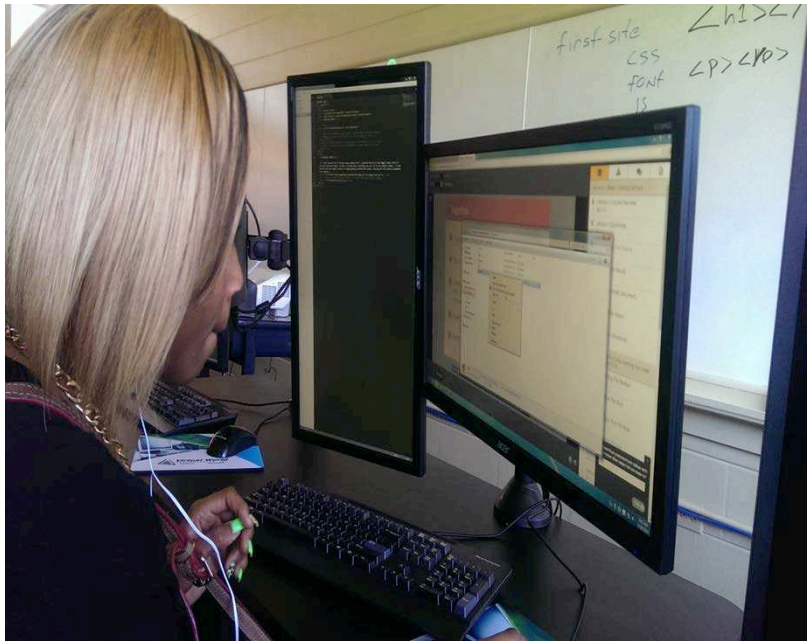


James Madison Preparatory High School

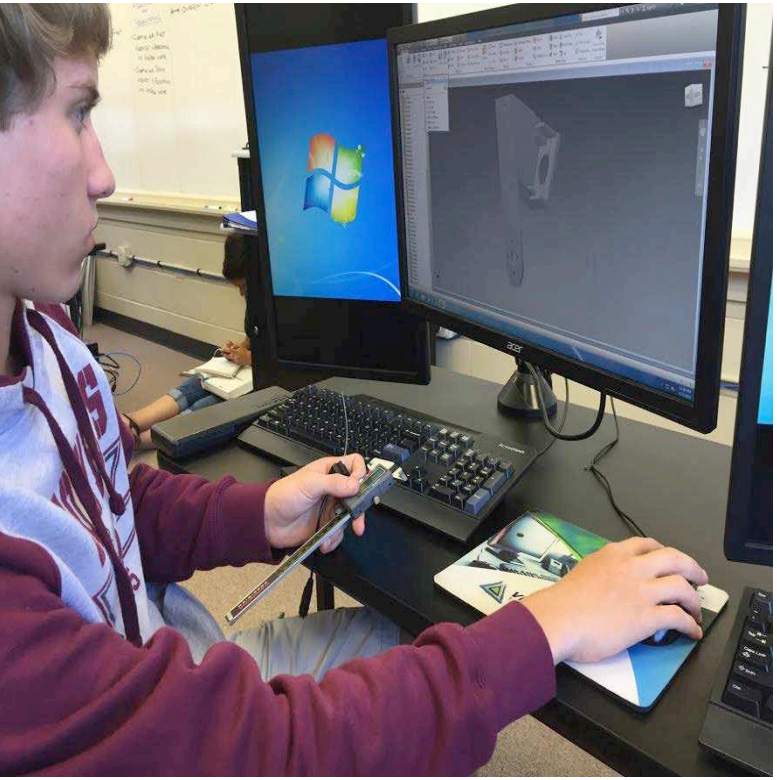
Coding: HTML, CSS & Javascript

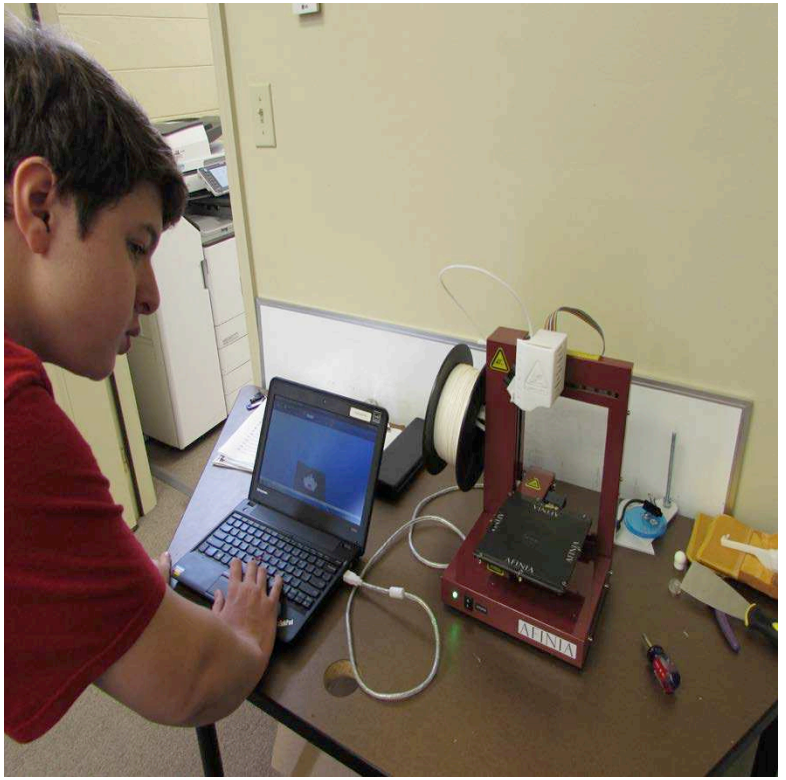


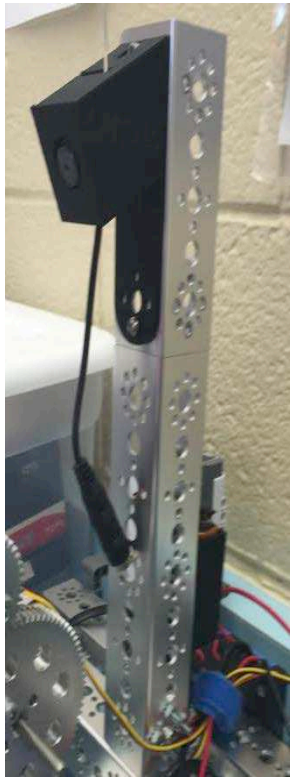




3D Printing: Alfinia H480







FSUS Engineering Society

A Collaboration between

Florida State University Schools
and
FAMU-FSU College of Engineering

THE
FLORIDA STATE
UNIVERSITY


Welcome Back Rowdy
Society of Petroleum Engineers
#FITC

Goals

- Provide students and teachers **hands on experiences** with engineering and other STEM related concepts
- **Increase collaboration** with the university
- Build a **meaningful program** with lasting affects for our students that bridges the gap between high school academics, college academics, and engineering **applications**

The Program-
An Engineering Society

FAMU-FSU hosted a group of 12-15 FSUS students once a month (starting mid-year) to tour the campus and participate in selected activities.

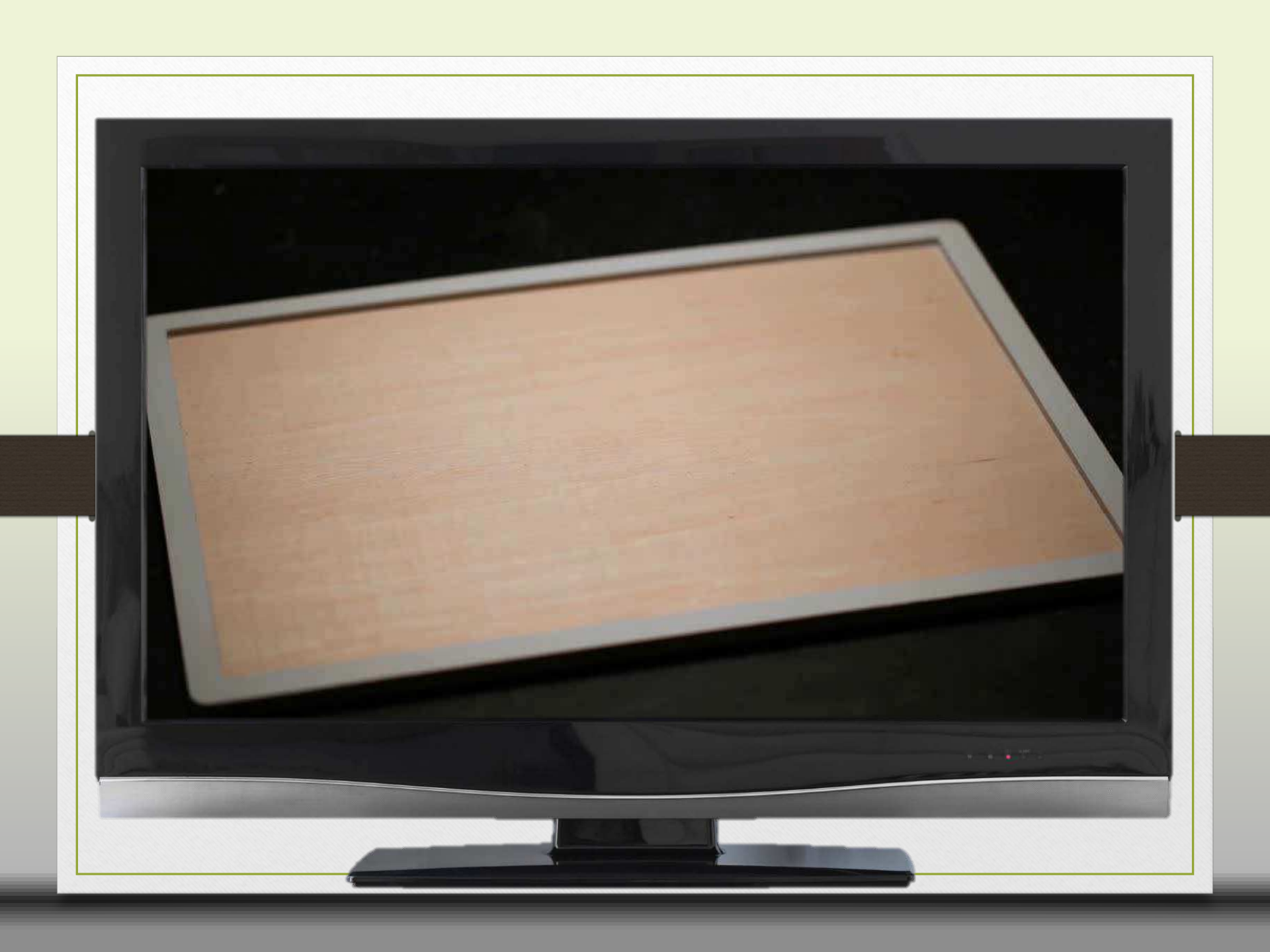
Students met at FSUS within our Science Club to continue working on concepts learned at FAMU-FSU College of Engineering

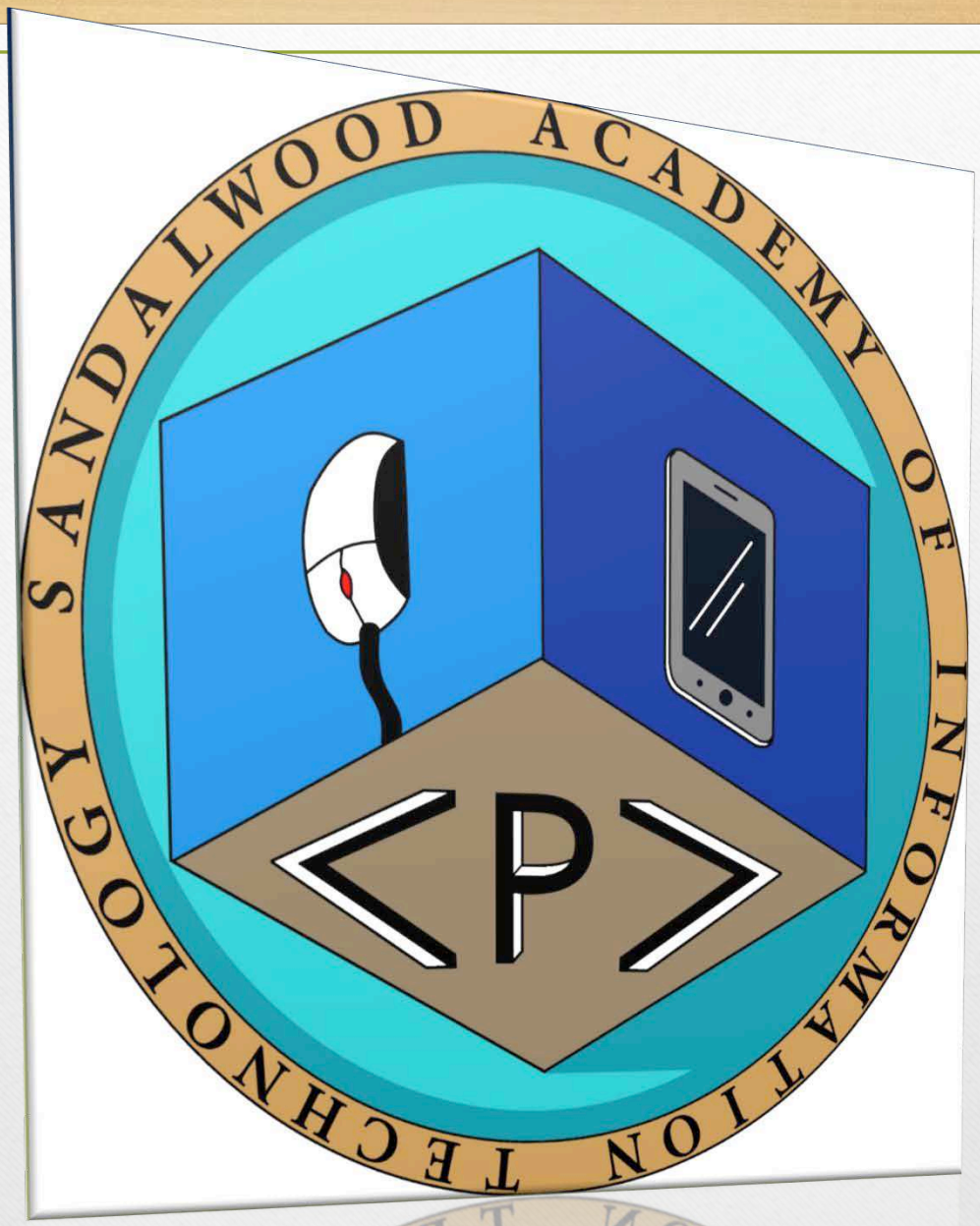
The Results

- Students have indicated they are **more likely to choose engineering** as a career after this experience.
- **High School teachers** appreciated the **experience** gained from being a part of the field trips.
- **Identified some gaps** in traditional high school science curriculum that impact STEM jobs (i.e. electrical engineering concepts). Students also now have Arduino software at the school to use.
- Potential to **increase** our society next year to 25 students. Increase the labs to being in October.
- Students want to participate in **engineering competitions** next year.


EXIT
FAMU-FSU
COLLEGE OF
ENGINEERING


RESISTOR COLOR CODE
#FITC




SANDALWOOD ACADEMY OF INFORMATION TECHNOLOGY
<P>

Sandalwood High School

Jacksonville, Florida

Joined the FITC in the Summer of 2014

Grant money allowed for:

6 flat screen monitors

Tablets for 2 classrooms

- Monitors provide students with continuous coverage of material that will be seen on **Certification Exams**.
- Tablets allow students mobile freedom while working with Android App. Inventor Programming classes.

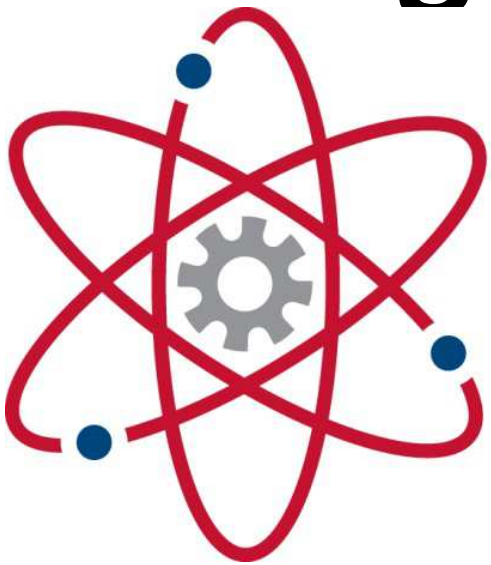
Monitor Examples….

- YouTube Link-Click Here

The Future with FITC….

- Attend future FITC student events/career fairs
- Purchase switch box to better utilize monitors and allow students to see Web Design instruction at their workspace, versus across class room
- Improve collaboration with fellow FITC schools

Marianna High School Academy of Engineering Design



PROJECT LEAD THE WAY

PLTW

Courses Offered

- Introduction to Engineering Design ⟶ Inventor
- Principles of Engineering ⟶ Robotics
- Digital Electronics ⟶ Robotics
- Civil Engineering & Architecture ⟶ Revit
- Engineering Design & Development ⟶ Capstone
- *Future offerings*
- *Aerospace Engineering*
- *Computer Science and Software Engineering*

FLORIDA

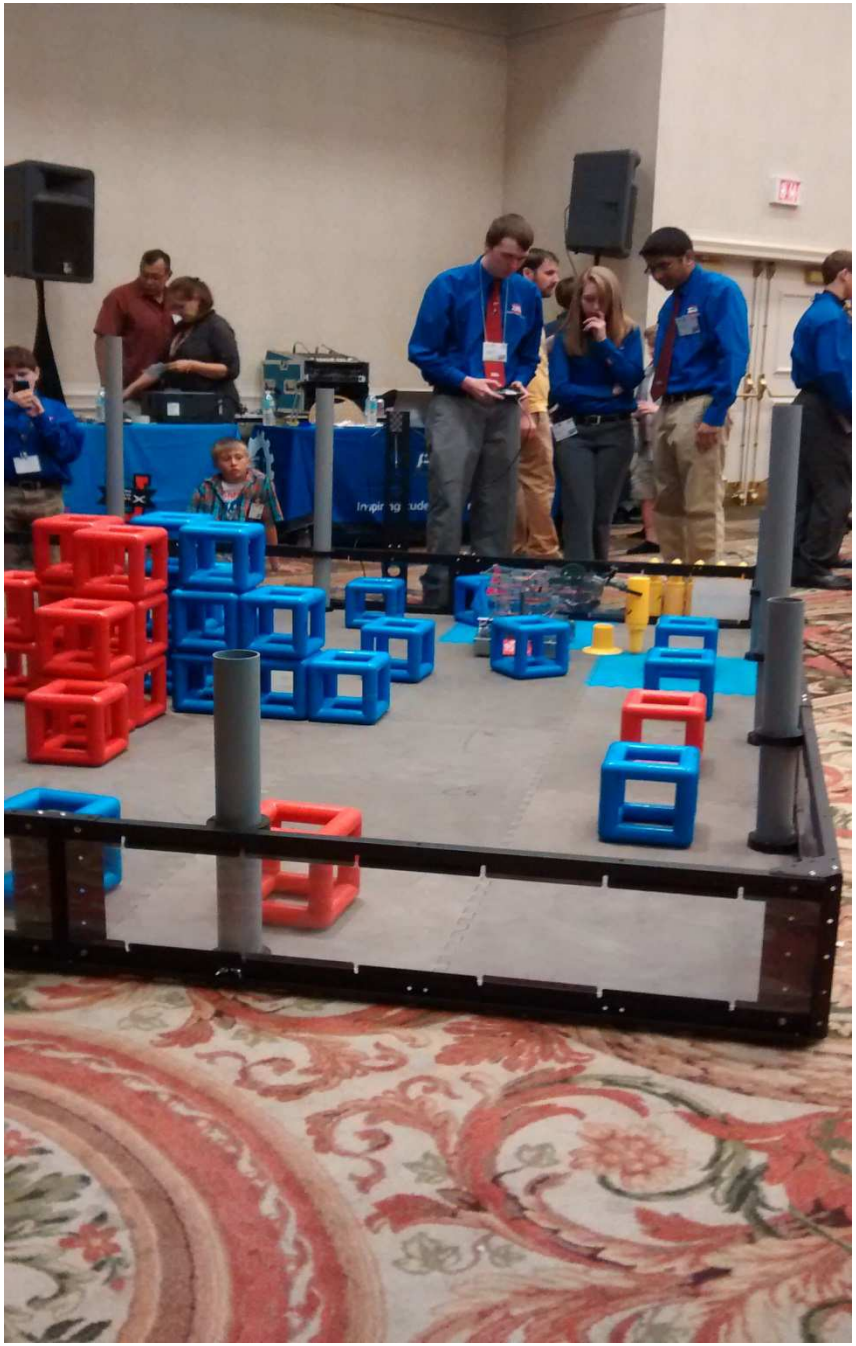
TSA

TECHNOLOGY STUDENT ASSOCIATION ®

MARIANNA HIGH SCHOOL

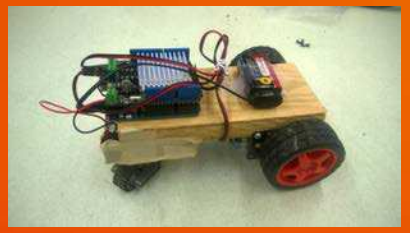
#MPOWR Our Future

Knowledge + Choice = Strength



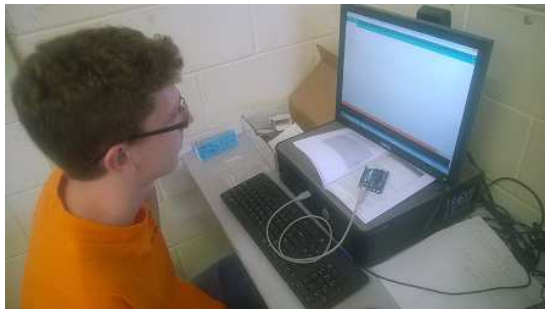
Orange Park High School

Orange Park, FL

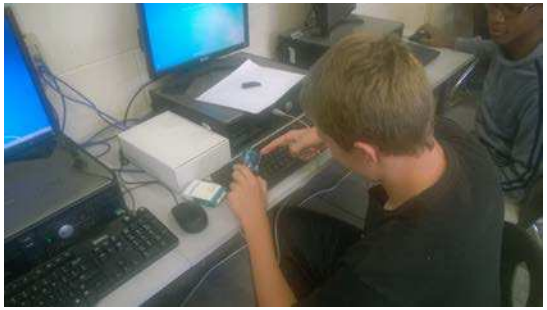


Arduino Robotics Project

The Beginning



Learning the IDE

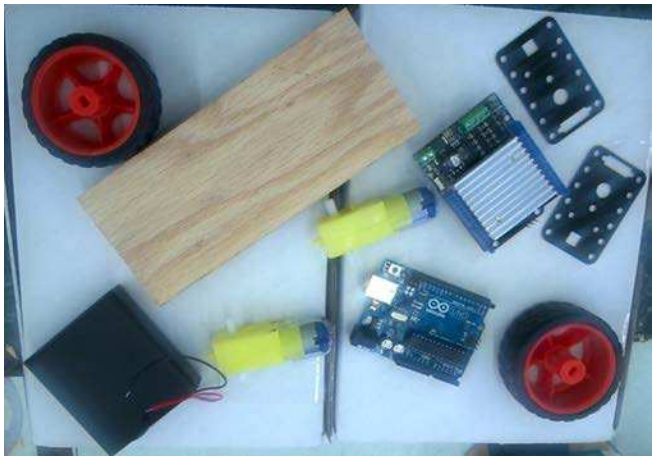


ARDUINO
OPEN-SOURCE
COMMUNITY

Software & Programming

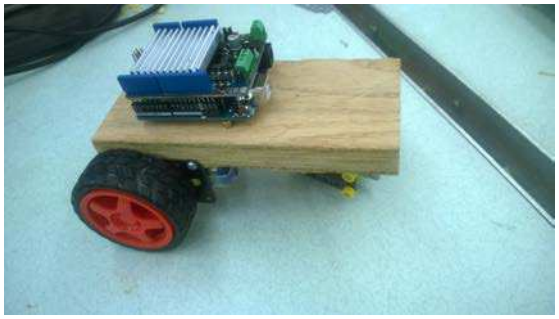
Time for a short break

Hardware challenge



Soldering Connections & Harnesses

Electronics & Mechanicals



Design & Fitting