



Lockheed Martin invests in Florida Schools

May 2015



WHO WE ARE

Project Lead The Way is a national non-profit 501c3 organization and serves

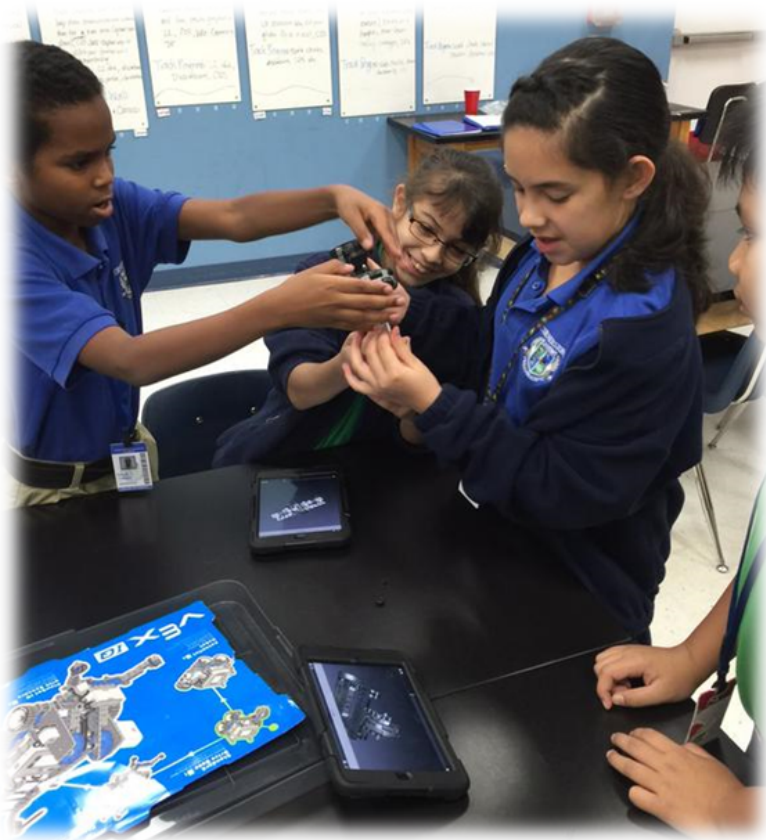
- 7,000 schools**
- 1 million students**
- in all 50 states**

PLTW has a sustainable business model with four national partners; Autodesk, Kern Family Foundation, Lockheed Martin, and Chevron.

PREPARING STUDENTS FOR THE GLOBAL ECONOMY



WHY STEM EDUCATION IS IMPORTANT



Florida's 4th graders have the second best reading scores in the world!

Florida leads the nation in closing the achievement gap.

WHY STEM EDUCATION IS IMPORTANT

80% of today's workforce requires

- logic
- reasoning
- discipline
- decision making skills

developed through math & science curriculum



FLORIDA STEM ECONOMY

FLORIDA STEM JOB GROWTH 3x *faster* than non STEM jobs



TOP NORTHEAST FLORIDA STEM EMPLOYERS:

- Mayo Clinic
- Northrop Grumman
- Lockheed Martin

STEM Careers in DEMAND:

- Registered Nurses
- Computer Systems Analysts
- Industrial Engineers

STEM Career SKILLS in DEMAND:

- Problem Solving
- Analytical Skills
- Teamwork & Collaboration

AN ENGAGED NETWORK OF PARTNERS



LOCKHEED MARTIN INVESTMENT IN FLORIDA

LOCKHEED MARTIN INVESTS IN ORANGE COUNTY PUBLIC SCHOOLS STEM TALENT PIPELINE



- National Partner
- \$2 Million Urban District wide Initiative
- 184 K-12 Schools will have (19 pre-existing)
 - 128 LAUNCH K-5
 - 27 Gateway 6-8
 - 10 Engineering 9-12



WHY IS THIS IMPORTANT FOR FLORIDA CHILDREN?

65 percent of scientists and graduate students in a 2010 study stated that their interest in science began before middle school.

“I love this class, because learning is fun” stated a 1st grader at Cornerstone Charter an Orange County School



WHY THIS IS GOOD for FLORIDA ELEMENTARY STUDENTS

Hear from a kindergartener



*This week we read, *The Three Little Pigs*. We talked about the structure of each house the pigs built.*

WHY THIS IS GOOD FOR FLORIDA MIDDLE SCHOOL STUDENTS Hear from a 6th grader



Green Architecture students design a community-oriented, green school. Features included a community/school garden featuring aquaponics and hydroponics for growing food. Students built a LEED certified building.

AN IMPACT ON HIGH SCHOOL STUDENTS THROUGH ENGINEERING

Courses:

- Introduction to Engineering Design
- Principles Of Engineering
- Digital Electronics
- Aerospace Engineering
- Biotechnical Engineering
- Civil Engineering and Architecture
- Computer Integrated Manufacturing
- Engineering Design and Development
- Computer Science and Software Engineering



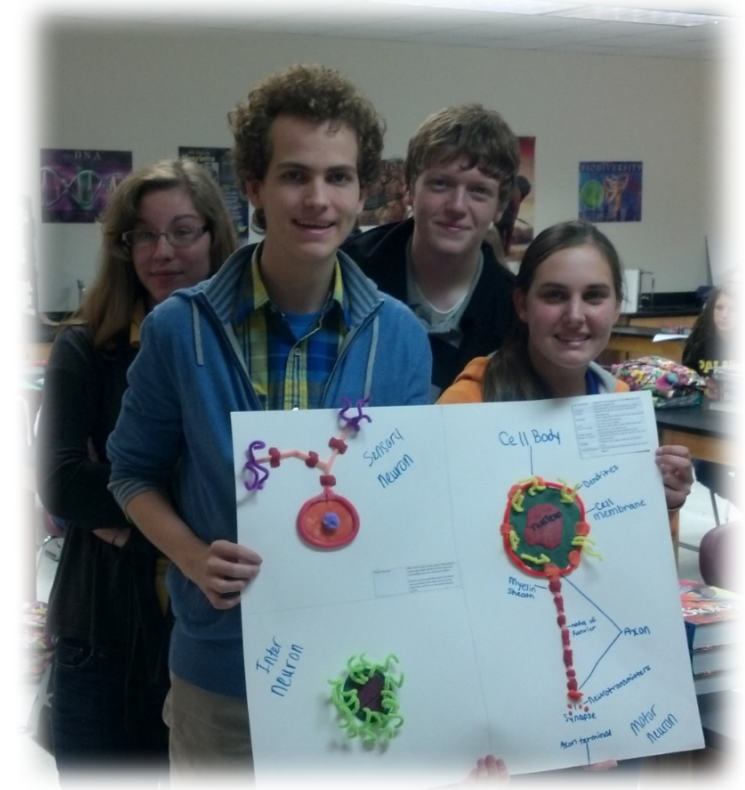
NEW FUTURE IMAGINED THROUGH BIOMEDICAL SCIENCE



Jacksonville PLTW students at Mayo Clinic part of Perry Initiative to expose female students to orthopedic surgery

Courses:

- Principles of the Biomedical Sciences
- Human Body Systems
- Medical Interventions
- Biomedical Innovations



WHY THIS IS GREAT FOR OUR TEACHERS

Intense Professional Development for 165 OCPS K-12 Teachers



OPENING NEW DOORS IMPROVING STUDENT OUTCOMES



Student
Achievement

College
Enrollment

College
Persistence

STEM Major

STEM
Career

“If you get the mindset that new and great things are around the corner, they always will be.”

Tyler Johnson 2013 Valedictorian Merritt Island High School
Mechanical Engineering student Florida Institute of Technology

QUESTIONS



**Thank you for your commitment
to Florida students.**

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