sTEm-at-play

Lego® Mindstorms®

Summer Robotics Camps













VISION

FLATE will be Florida's leading resource for education and training expertise, leadership, projects, and services to promote and support the workforce in the high performance production and manufacturing community.

Impact locally, lead nationally





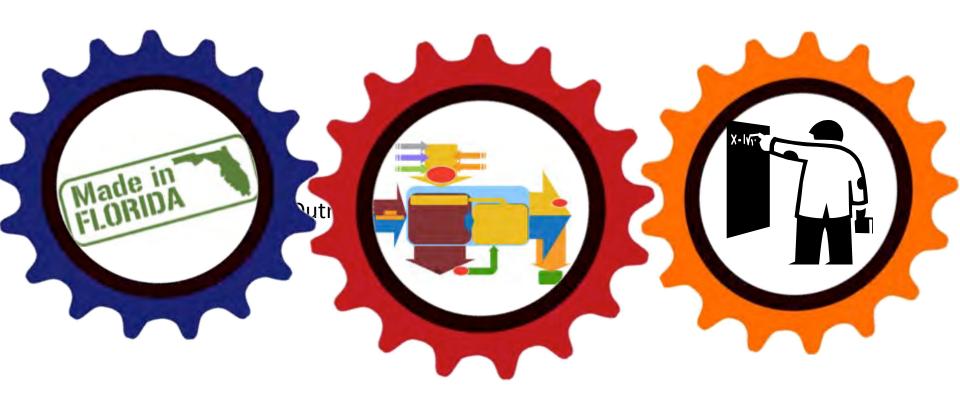




Outreach

Curriculum Reform

Professional Development











"technology is more fun when you actually know what is going on without much fanfare about the science or the math lurking about"















WHAT CAMPERS DO

- program and reconfigure robots
- work with sensors
- team challenges
- design products
- print 3D nameplates
- tour a highly automated facility
- explore careers
- Friday challenge with families
- have fun!



WHAT THEY DON'T KNOW THEY DO

- recognize challenges
- address challenges
- experience teamwork
- apply math & science
- integrate technical systems
- practice communications skills

- ◆troubleshoot
- solve problems
- **→**learn persistence
- create &innovate

















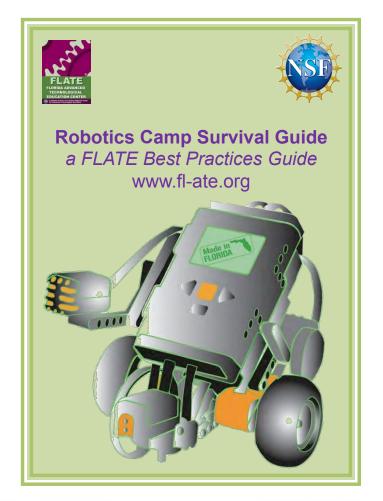
HOW WE DO IT?

- →in-kind space
- own robots; borrow laptops
- built on Cornell curriculum
- Identify sponsors/ donations
- camp manager
- →lead teacher + helper





HOW WE DO IT?

















{SPECIAL}

7/1.111.111.11

THANKS





ROBOTICS CAMPS SPONSORS









EDUCATION CENTER







159 Society of Manufacturing Engineers **CHROMALLOY**

10.04.13 in FLORIDA!

Our goal is to have at least 200 "Made in Florida" Industry Tours on October 4, 2013 – MFG Day.
Open Your Doors to Your Future!

Open YOUR doors to YOUR future!

Host a "Made in Florida" Industry Tour

Dispel outdated myths about manufacturing

Tell your company's story

Connect with your potential customers

Inspire a new generation of manufacturers

FLATE Can Help

Assist in organizing tours • Survey students & teachers Compile data • Disseminate results • Distribute T-shirts

Manufacturers / Associations

Post your event • Offer lunch & MFG T-shirts • Take photos!

Districts / Schools / Community Groups

Provide transportation • recruit students, teachers, chaperones

Www.mfgday.com | Made in | Made in







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Participate in BAMA STEM activities!

what YOU can do

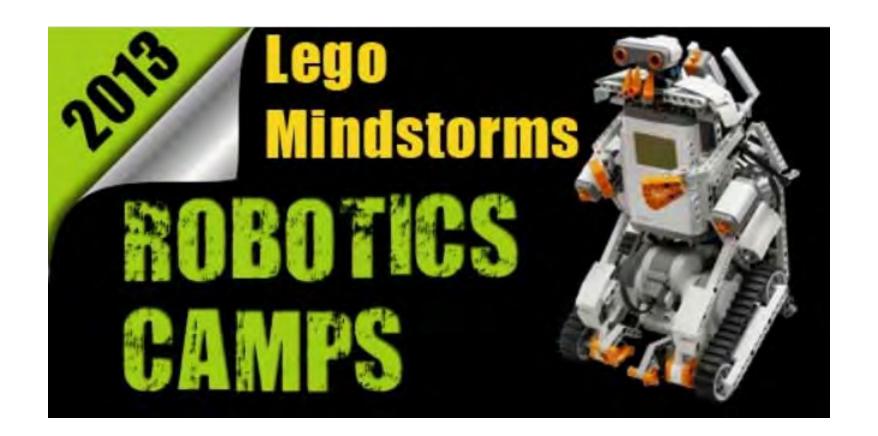
- ✓ Host student tours
- ✓ Join program advisory boards
- ✓ Provide real world problems for curriculum
- ✓ Mentor robotics teams
- ✓ Judge science/engineering fairs
- ✓ Review scholarship applications
- ✓ Visit students at robotics camps
- ✓ Support STEM programs financially

















Sample Summer Camp Teams

FLATER

Team 1



The Roaming Robots

Team 3



Team 2



The Skillful Robots

Team 4



Team 6



Team 7



Automated Terror

Robots

Team 8





Team 10



Team Sonic

Impact Florida. Lead Nationally.

BAMA STEM & Scholarship Night 2013

Challenge A: The Bottle Touch

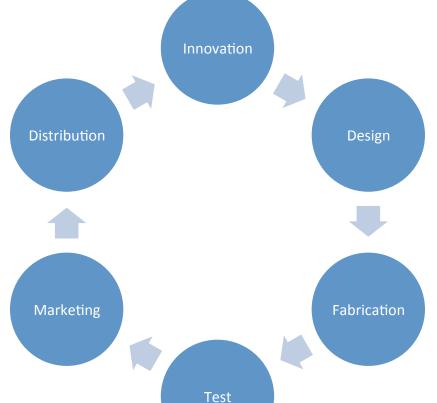






Made In Florida Presentation

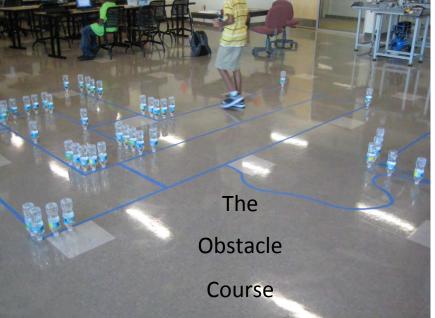








Challenge B: Obstacle Course



The Automated Terrors demonstrate the obstacle course challenge.

Don't

Hit

The





Go

Teams!!!

Challenge C: Guided by Sound



You've Got

To

Clap

To



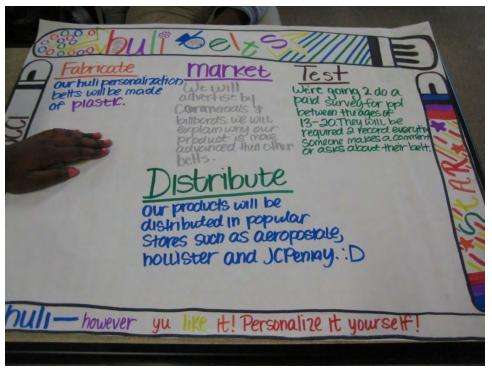


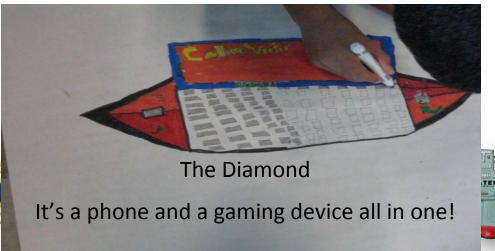


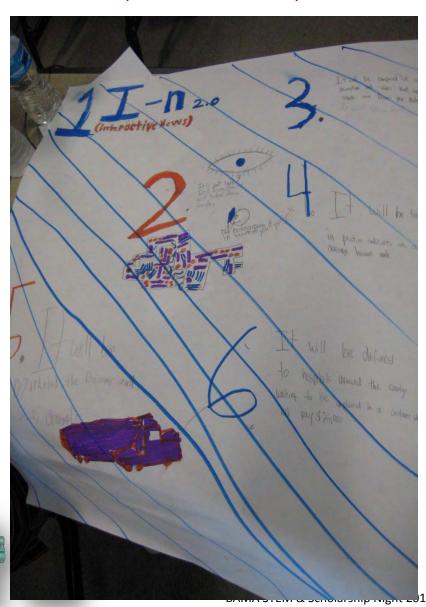
Creative Manufacturing Ideas

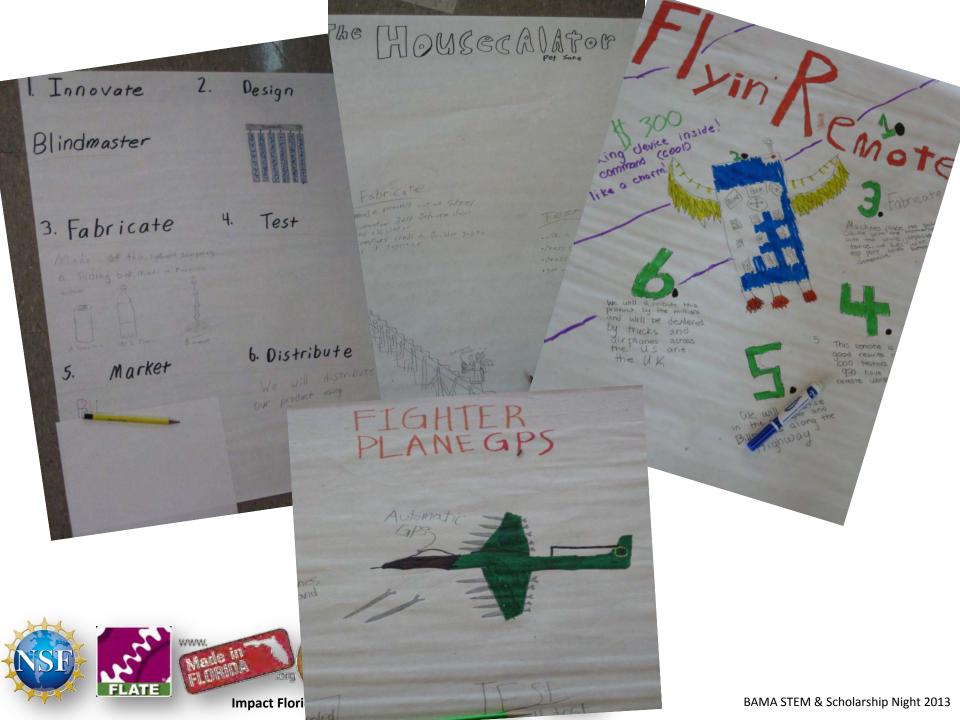
HULI Belts (How U Like It)

I-n (Interactive News) 2.0





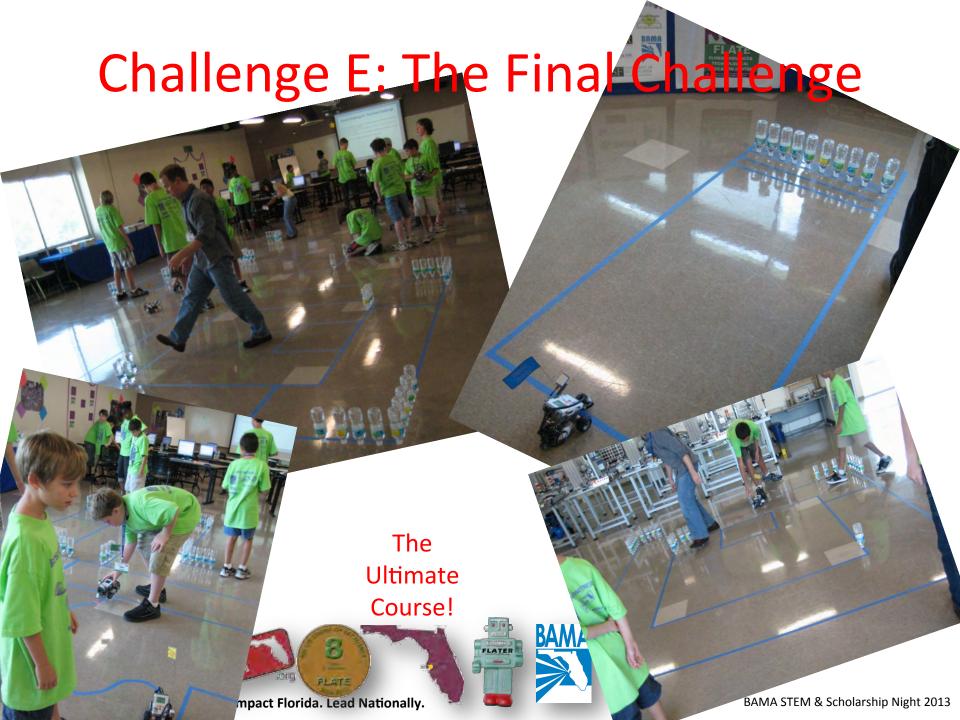




Challenge D: Line Followers







All teams who participate are winners!

Thank you

BAMA Industry Partners

for sponsoring a fun and educational robotics camp experience!



Questions and Answers?

Thank you!

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Executive Director and Principal Investigator, FLATE

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