

FIRST[®] LEGO[®] League

TUT***RIALS***

teach

share

learn

OUTREACH

MICHAEL JUNGE, COACH, JAMESTOWN ROBOWOLVES

MEET THE AUTHORS

- The Jamestown Robowolves have won 2 state championships
- They won the First Place Overall Project award at the Razorback Invitational
- They won the First Place Inspiration award at World Festival!



WHAT IS OUTREACH IN FIRST LEGO LEAGUE?

- In FIRST LEGO League outreach is about sharing your work on the project, the robot, and as a team.
- It is also about spreading STEM and FIRST in the community



WHERE CAN YOU HOLD EVENTS?



- Library
- Town Recreation Center
- Town government
- Local newspaper story or column
- Your school, Other schools
- 4H Clubs
- Service organizations (Kiwanis, Lions Club, Rotary, etc.)
- Senior Citizens Centers
- Churches and church groups
- Scout groups
- Professional Organizations
- Museums
- Boys & Girls Clubs
- Maker Faires

WHAT CAN YOU DO AT AN OUTREACH EVENT

- Explain what FIRST LEGO League is: team building, STEM focus, more than just robots
- Teach about your project, core values challenges, robot building
- Demo your team's robot
- Display your project or core values posters
- Run a programming class (if you have enough equipment)
- Display MINDSTORMS models that the audience can interact with
- Anything! Just talk about what a great time you have with FIRST, what skills you have been learning, and why you think it's important!



HOW DO YOU SET THEM UP?

- Talk to team parents; someone is usually a member of some group or knows someone who is
- Contact the Children's Librarian
- Write to the editor of the local paper or magazine
- Ask the school Principal to talk to PTA or Honor Society
- Phone call, email, carrier pigeon – whatever works
- Write your details down before you contact someone – make sure you pass them all along!

Things to think about before you call:

- What do you plan to do at the event?
- How many participants can attend (you might be limited by the number of robots/laptops you have or the size of the room)?
- What ages will you allow?
- Do you want people to sign up in advance?
- How long will the event be for?
- What equipment do you need from the host?
- Is there a cost?
- Do parents have to stay?
- Why is this event something that the host might value?
- Does the venue allow you to take photographs?

SAMPLE LETTER FOR SETTING UP AN EVENT

Dear Librarian,

I am a resident of your town and a member of a local youth robotics team.

You can read more about our team here: www.teamwebsite.com.

My team and I were wondering if the library would be interested in hosting a Robotics Demo for your patrons. We know that you have been adding **STEAM classes** to your summer programs.

Our team has been participating in a program called FIRST LEGO League for three years. **By doing such demos,** we hope to encourage more children to participate in STEM programs. We know that your library is very supportive of children's/community activities and would love to come and run a class. There would be **no cost** to the library or kids. We just need a room with **enough space** for a 4ft X 8ft table (that we will bring) and space for an audience to come and go (maybe about 10-15 people at a time). We expect between **50-100 people total to attend.** **No sign-up** is required for this event and it is open to **any age.** **We will demonstrate** our FIRST LEGO League robot (a robot built out of LEGO MINDSTORMS) to the attendees and answer any questions they may have. The session will be **2 hours long.**

In addition, we would like **permission to take photographs** of attendees at the event. These will be used on our team's website/social media pages and shared with judges at future competitions.

You can let us know what your thoughts are and we will be happy to work with you. We are flexible and available almost any evening **or weekend in July.** You can **contact me** at student@fllteam.com.

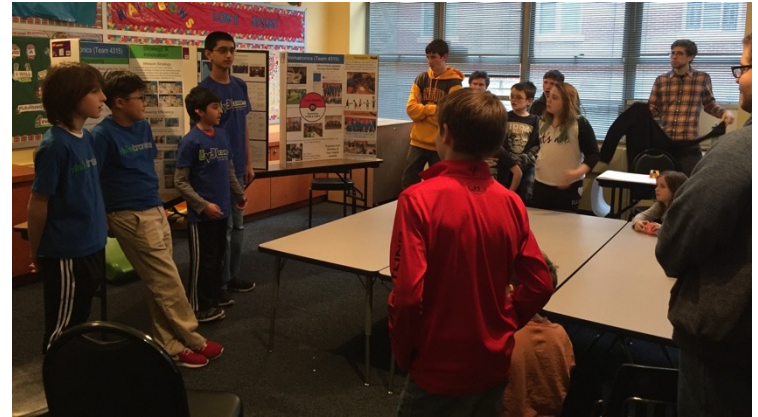
Sincerely,

FLL Student

- This letter introduces the team, gives them a link for more information, tells the goals of the event, and lets them know key information such as cost and space requirements from the host.
- If you plan to do a programming or hands-on workshop, you would need to specify that you are looking for classroom-type setup (tables and chairs) and how many people and what age are welcome to sign up.
- Remember to always go early to set up yourself and stay late to clean up and leave the room as you found it.
- Send a thank you letter to your host at the end of the event.

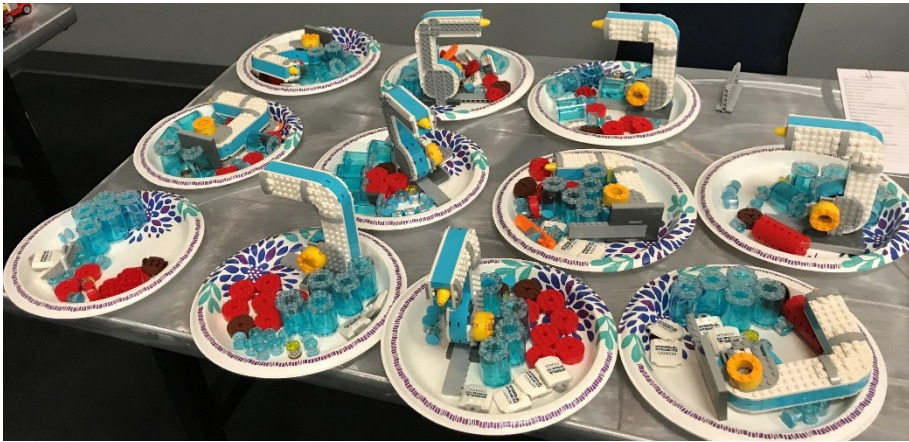
WHAT TYPES OF EQUIPMENT MIGHT YOU NEED?

- FIRST LEGO League Demo –
 - Your robot, a FIRST LEGO League table, your challenge set
 - A plan – show the board or just simple robot tricks?
- Programming Class –
 - Chromebook, laptops or tablets
 - Robots
 - Projector
 - Lesson plan
- Core Values and Project presentation
 - A prepared activity
 - Your poster boards
- MINDSTORMS models
 - Models built in advance



OTHER OUTREACH OPPORTUNITIES

- Volunteer to help your Operational Partner build models for local FLL tournaments



Sent in by Maniacs Brainiacs

CREDITS

- This lesson was written by Michael Junge,
<http://www.jamestownrobowolves.org/home>
- More lessons for FIRST LEGO League are available at
www.flltutorials.com



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