

## Educational Engagement Form

Please complete and submit this form each time you host an educational engagement event.

(Return within 2 weeks of the event end date)

**School/Organization name:** Northeastern University/NEPTUN Program

**Date(s) of event:** 25 October & 1 November 2014

**Location of event:** Northeastern University

### **Instructions for participant count**

*Education/Direct Interactions: A count of participants in instructional, hands-on activities where participants engage in learning a STEM topic by actively participating in an activity. This includes instructor- led facilitation around an activity regardless of media (e.g. DLN, face-to-face, downlink.etc.). Example: Students learn about Newton’s Laws through building and flying a rocket. **This type of interaction will count towards your requirement for the project.***

*Education/Indirect Interactions: A count of participants engaged in learning a STEM topic through instructor-led facilitation or presentation. Example: Students learn about Newton’s Laws through a PowerPoint presentation.*

*Outreach/Direct Interaction: A count of participants who do not necessarily learn a STEM topic, but are able to get a hands-on look at STEM hardware. For example, team does a presentation to students about their Student Launch project, brings their rocket and components to the event, and flies a rocket at the end of the presentation.*

*Outreach/Indirect Interaction: A count of participants that interact with the team. For example: The team sets up a display at the local museum during Science Night. Students come by and talk to the team about their project.*

**Grade level and number of participants:** (If you are able to break down the participants into grade levels: PreK-4, 5-9, 10-12, and 12+, this will be helpful.)

Participant’s Grade Level	Education		Outreach	
	Direction Interactions	Indirect Interactions	Direction Interactions	Indirect Interactions
K-4				
5-9				
10-12	30			
12+				
Educators (5-9)				
Educators (Others)				

Are the participants with a special group/organization (i.e. Girl Scouts, 4-H, school)? **Y** **N**

If yes, what group/organization? Boston School District

**Briefly describe your activities with this group:**

Team members taught a class of high school students as part of Northeastern's NEPTUN program. Classes of 9-10 students used SolidWorks 3D design software to virtually assemble the components of a car jack, a fan, a robot arm, and some other interesting machines. Students were also taught the basics component patterns, mating, and photo rendering. After designing some basic shapes, the kids played around with a photo rendering of King Kong fighting a 747. Needless to say, it was crowd pleaser (image below). Students also learned how to perform a motion simulation and were able to create their own double pendulum animation.



**Did you conduct an evaluation? If so, what were the results?**

N/A

**Describe the comprehensive feedback received.**

Students were overwhelmingly enthusiastic and in favor of this activity.