

Project

gk12.poly.edu/amps

A.M.P.S.

Applying Mechatronics to Promote Science



Mission

Take advantage of students' fascination with modern technology such as robots, by using this as a hook, to stimulate them to learn about STEM disciplines



GK-12 Fellow Jennifer Haghpanah and teacher Leonarda Huertas working on robotics explorations with students at PS 636.

Demographics

- Fellows: 8 Doctoral Students
 - Male/Female: 6/2
 - Underrepresented: 2
- Students: 639
 - Male/Female: 299/340
 - Underrepresented: 561
- Teachers: 8
 - Male/Female: 4/4
 - Underrepresented: 6

Courses & Schools

- Science
 - PS 21
 - PS 399
- Math
 - PS 636
 - MS 113
- Technology
 - IS 267
 - IS 318
 - IS 383
- Computers
 - UAI
- Robotics

Activities

- Summer Training
 - Fellows: Mechatronics, Pedagogy
 - Fellows & Teachers—Robotics
- Academic Year
 - FLL Robotics Prep & Competitions: Practice, Brooklyn, NYC
 - Mechatronics/Robotics in class/lab
- Fellows' Research
 - Robotics, Protein Eng., Bio-Sensors, Image Proc., Embedded Sys.



GK-12 Fellow Alex Kozak with teacher Russ Holstein and students of IS318 at the Brooklyn FLL Tournament after winning the "Champion" Award—1/10/2009

bringing robots to show-and-tell

Brooklyn Daily Eagle

Crowds Roar as Robots Compete in Brooklyn

LEGO Robot Competition at MetroTech

By Mary Prine
Brooklyn Daily Eagle

METROTECH — The cheering from the crowd reached ear-splitting levels as rival teams of hand-built robots roared onto colorful, brightly lit arenas.

"Go, go, go!" spectators and supporters yelled as checkered-board competition started using the sensors, carving out paths and picking up a plastic cone, moving it to an enclosure, dumping it there and coming back to its starting point.

