Lessons from a Research Experience for Teachers Site

http://engineering.nyu.edu/mechatronics/smart/
NSF RET Site Award: EEC-1132482

NSF STEM Forum, Washington, DC, November 9, 2015
Engineering in NGSS Demands Learning by Doing: Integrate STEM Disciplines and Align with Standards
Research Immersion Cultivates Engineering Habits: Design, Collaborative, Entrepreneurial, Solution-Oriented
Follow-up Essential: Classrooms, Colleges, Contests, ...
Authentic, Exciting, Engaging, and Relevant Tools
What Next? Sustain, Institutionalize, Engage Industry, and Scale-up (DoE, Philanthropy)

NYU SCHOOL OF ENGINEERING Prepares for STEM Push Through Teacher Tech Training

Officials at New York University’s Polytechnic School of Engineering aim to rocket the city schools into the future with an ambitious new push for science, engineering, technology and math — better known as STEM.

NYU School of Engineering is teaming up with the National Science Foundation and the city Education Department to train 500 city teachers to use robotics, lessons in cyber security and entrepreneurship in their classes.

The New York Times

De Blasio to Announce 10-Year Deadline to Offer Computer Science to All Students

To ensure that every child can learn the skills required to work in New York City’s fast-growing technology sector, Mayor Bill de Blasio will announce on Wednesday that within 10 years all of the city’s public schools will be required to offer computer science to all students.

Meeting that goal will present major challenges, mostly in training enough teachers. There is no state teacher certification in computer science, and no pipeline of computer science teachers coming out of college. Fewer than 10 percent of city schools currently offer any form of computer science education, and only 1 percent of students receive it, according to estimates by the city’s Department of Education.

Computer science will not become a graduation requirement, and middle and high schools may choose to offer it only as an elective.

But the goal is for all students, even those in elementary school and those in the poorest neighborhoods, to have some exposure to computer science, whether building robots or learning to use basic programming languages like Scratch, which was devised by the Massachusetts Institute of Technology to teach young children the rudiments of coding.
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