

If everyone is moving forward together, then success takes care of itself.

--H. Ford

[www.squareonenetwork.org](http://www.squareonenetwork.org)



**EDUCATION NETWORK**

the future starts with us

The Square One Education Network is a 501 c 3 charitable organization

# Mission:

*What is our unique reason for being?*

Create and fund powerful, relevant experiences for K-12 teachers and students that creatively *integrate* science, technology, engineering and mathematics (STEM) using best practice supported instruction through unique project designs





**CREATIVE**

CURRENT

ACTION

SUPPORTIVE

EXCITING

HELPFUL

INVENTIVE

PASSIONATE

RESOURCEFUL

ENGAGING

TECHNOLOGY

ADMIRE

DIGITAL

**INNOVATIVE**

EXPANSIVE

IGNITING

KNOWLEDGEABLE

PERSONABLE

SCHOOLS

THRIFTY

**LEADING EDGE**

YOUTH

BRIGHT

BENEFICIAL

FUTURISTIC

IMAGINATIVE

**TRANSFORMATIONAL**

PREMIER

EDUCATIONAL

GEAR

LEADING

SPIRITED

**DYNAMIC**

CONNECTED

ENERGY

GENEROUS

PROJECTS

SUCCESS

VERTICAL

CREATIVE

DYNAMIC

INTELLIGENT

NIMBLE

SMART

REFORMER

**INSPIRING/INSPIRATIONAL**



# The Square One Process

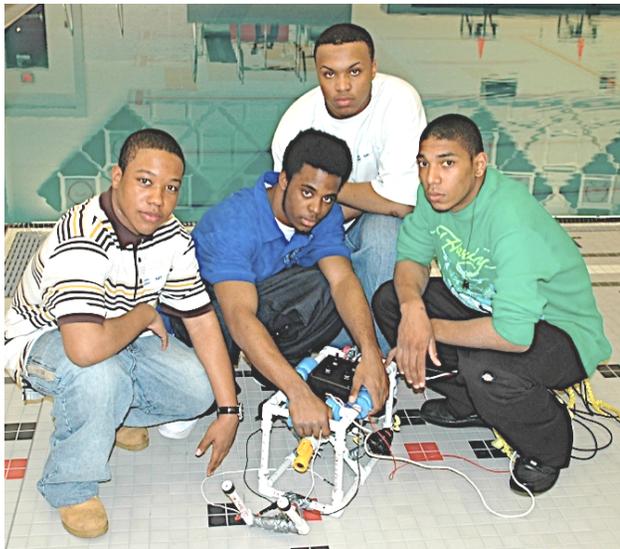
- Identify an enthusiastic teacher (Point of High Leverage)
- Co-create a STEM-based, meaningful project that addresses the needs of that learning community.
- Process grant proposals expediently...minimal bureaucracy.
- Square One is poised to assist in locating a corporate, university or community partner to provide additional resource for projects.
- Commit to continuing service and support to these educational communities.

# Why Square One?

Our goals and objectives may be similar to other technology oriented organizations.

But, Square One's methodology is different.

By providing teacher training, highly engaging, affordable engineering projects, and personalized service, and educational support aligned with research on learning, Square One fills a unique role.



We give schools a place to begin  
...a Square One.

*The future starts with us!*

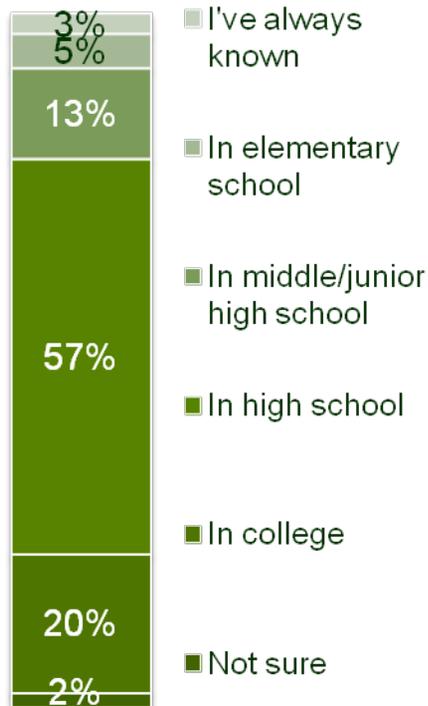
# Our “Customers”

Our reach involves K-12 students and teachers from schools throughout the Great Lakes Region for now, though all projects and offerings are expandable to other regions when the funding to support them arrives.



Nearly 4 in 5 STEM college students say that they decided to study STEM in high school or earlier.

**STEM Students: When Did You DECIDE You Wanted to Study STEM?**



Two surveys were conducted online within the United States by Harris Interactive on behalf of Waggener Edstrom Worldwide/Microsoft:

- The student survey was conducted from May 9–12, 2011 among 500 U.S. undergraduate college students, ages 18–24, who are currently pursuing a STEM degree. Data were weighted to be representative of U.S. undergraduate college students between the ages of 18–24.

# Our “Products”



Unique Classroom Grants

Teacher Workshops

Science of Cell Phones

Circuits to Circuits

GPS in the Classroom

ROV Education

Tivitz Math Strategy Game

University and Corporate Partnerships



NHHPC: Ames Research Center (18 Oct 11)

What is the value in investing in education and outreach?

How does it stimulate a healthy organization?

Kevin Kelly, Director of Business Development



*It's your speed.*

*“Our “racing industry” combines a wide range of technology, engineering and science related talent and gear. At the Michigan International Speedway, our leadership team understands that collaborative efforts that support K-16 and help bring more “WOW!” to the exact population that we are all counting on to lead not only our industry, but others with parallel demands.*

*We understand that these partnerships stimulate the youth in our region, but also our entire team at the speedway. As parents and community members, it is always healthy to invest in our next generation of technology leaders and their teachers.”*



Mike Tucker...Michigan Public Sector Program Manager  
Intel® Americas - Government, Education, Medical



*“Being a Square One board member allows me to represent Intel and support an organization that is passionate about creating interest for students to become our next scientists and engineers. Square One programs make it possible to reverse our nation’s declining number of engineering graduates, and become scientific leaders again. At Intel, we invest in opportunities that reflect the promise of a much brighter and robust technology rich learning environment for students.”*

Michael Wynblatt

Vice President, Global Innovation



*At Eaton, our outreach activities through organizations like Square One to local schools generate significant value. We are trying to build a culture of community engagement within the company, and STEM-oriented engagements with schools offer an opportunity to engage employees in something they easily relate to and enjoy. Moreover, the chemistry we build within our teams through activities like this is very valuable. For the long-term, we are quite concerned about the decreasing enrollment in STEM at US universities; activities like this help us proactively contribute to the solution.*

**EATON**



John Waraniak-Vice President Vehicle Technology  
Specialty Equipment Market Association (SEMA)

*“At SEMA, we are working to make technical education and outreach **cool!** We want to help prepare “Book Smart” students to solve problems as well as develop engineers and technologists with “Street Smarts” so that can pursue opportunities like...*

*Cars that Don't Crash -- Devices that Don't Distract and Powertrains that Don't Pollute  
Paraphrasing my favorite philosopher, Yogi Bera...*

*“If students don't want to become engineers, no one will stop them!”*

-- We need to Excite them !

- The Automobile as well as the Industry and others are Being Reinvented
- From Mechanical to Electronics and Electrical Systems
- From Stand Alone Vehicles to Connected Vehicles
- From Mass Markets to Personalization
- Today's Vehicles have 150 Microprocessors on Board
- Automobiles, Aircraft, Computers and Smart Phones are Systems-of-Systems



*The current and next generation of leaders needs to understand functional as well as systems thinking. Technical Education is the foundation for Repowering the American Dream”*



# SQUARE ONE™

EDUCATION NETWORK

the future starts with us



*Entrepreneurial – Incubator*

*Generative – Relevant -- Organic*

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