Full Scale Innovative Vehicle Design
 SQUARE ONE EDUCATION NETWORK

WHERE STEM MEETS THE ROAD!
Teams of high school students design, engineer, and build a fully functional one-person vehicle. Each car must have a unique component that sets it apart from its competitors. Student projects have included innovations from across the spectrum of automotive engineering disciplines including safety features, body styling, driver comforts, and energy management.

LEARN MORE AT
http://www.squareonenetwork.org/full-scale

STUDENTS SOLVING REAL-WORLD PROBLEMS
Teams focus on leading edge technologies such as “Light-weighting” and sensor technology. Full Scale IVV cars compete on three courses: Figure 8 and the Oval for endurance and new this year a Connected Vehicle course. Student built vehicles will communicate with the infrastructure and RSU’s (road side units) for authentic, real world learning experiences. Square One provides training, project parameters, on-going support, and premiere competition event experience.

TEAMWORK & SOFT SKILLS
Students work collaboratively toward the project’s solution, managing timeline, budget, and public speaking.

CREATIVITY
Square One offers resources and connections; students decide what they want their project to look like. Missions are open ended with more than one “right answer.”

INNOVATION
Student teams design, build, test, modify and re-engineer an innovative solution.

SKILLS
Students apply skills they’ve learned in class, critical thinking, and problem solving.

IDEAS
Students advocate their ideas to integrate features while setting targets for success.

SAFETY
Student teams are given strict guidelines for safety considerations within project parameters, gaining useful lifelong skills.

FIRST YEAR STARTER KIT AND REGISTRATION COST: $6,000

WHAT YOU GET:
- Hands on teacher/student training, including SCECHs
- Starter kit (includes the vehicle!)
- Classroom curriculum
- Entry fee for challenge competition
- On-going technical support
- Exposure to industry career pathways

TO SIGN UP TO MOBILIZE STEM IN YOUR CLASSROOM, EMAIL US HERE:
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WWW.SQUAREONENETWORK.ORG