Introduction:

• The Rapidly Manufactured Robot Challenge (RMRC) is a competition for low cost, rapidly manufacturable small (30 cm width) robots and robotic components that enable responders to more safely and effectively perform hazardous mission tasks.

• 3D printing, laser cutting and low cost, common sensors, computation and other electronics lower the barrier of entry.

• Students from high school through to graduate students and early career researchers compete against the same challenges.

• Competitions, teaching camps and workshops advance the state of the science in response robotics.

Competition:


• Tasks include mobility, manipulation, sensing and autonomy at differing scales and levels of difficulty for autonomous and/or teleoperated robots.

• Competitions are held annually on a domestic, regional and international basis.

Robots:

• The Open Academic Robot Kit (OARKit) provides a starting point for teams.

• All mechanical parts are 3D printable or laser cut, components are common off-the-shelf and all designs, source code and instructions are open source.

• Open source designs encourage sharing and facilitate ad-hoc collaboration.

Visit http://comp.oarkit.org for more details and to join our mailing list!