

FIRST[®] ROBOTS: BEHIND THE DESIGN

30 Profiles of Design, Manufacturing, and Control



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FIRST[®] INSPIRES

FIRST[®] (For Inspiration and Recognition of Science and Technology) was founded in 1989 by inventor Dean Kamen to inspire young people's interest and participation in science and technology.

Based in Manchester, NH, the 501(c)(3) not-for-profit public charity inspires young people to be science and technology leaders by engaging them in exciting mentor-based programs that build science, technology, engineering, and math (STEM) skills; inspire innovation; and foster well-rounded life capabilities including self-confidence, communication, and leadership.

FIRST[®] Robots: Behind the Design features 30 top-performing robots from the 2015 *FIRST*[®] Robotics Competition, which partners youth and mentors to design and construct robots for exciting sports-like competition. The annual event draws leading robot designers who compete, cooperate, and experience the rewards of engineering and science. The 2015 campaign spanned the globe and included 2,900 teams and more than 72,000 high school students.

The 30 robots and design teams featured in this book are exemplars: a collection of the finest designs and teams in the 2015 *FIRST* Robotics Competition. Team profiles document the design, manufacturing, and control processes that converted innovative ideas into sophisticated, high-performing robots. Proven methodologies are described to showcase advanced technology and provide an intimate understanding of what it takes to design, manufacture, and control a *FIRST* robot.

