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IRVING TEEN AWARDED \$10,000 FOR CREATING AN INTEGRATED APP FOR EARLY DETECTION OF CARDIOVASCULAR DISEASES Shelly Goel to be Named a 2018 Davidson Fellow

Irving, Texas – The Davidson Institute for Talent Development has announced the 2018 Davidson Fellows. Among the honorees is 18-year-old Shelly Goel of Irving. Goel won a \$10,000 Davidson Fellows Scholarship for her project, *An Electronic Device with an Integrated App for Early Detection of Cardiovascular Diseases*. She is one of only 20 students across the country to receive this honor.

“It is an incredible milestone to be named a Davidson Fellow,” said Goel. “It both validates my hard work and will support my continued pursuits in college and my future.”

Cardiovascular and arterial diseases are leading causes of death and are responsible for more than a fourth of all U.S. deaths. Goel’s research led her to develop a low-cost, easy-to-use, non-invasive electronic device designed to obtain a continuous blood pressure waveform at the brachial artery. It is integrated with a user-friendly “Blood Pressure Analytics” smartphone application for real-time, multi-parametric analysis and comprehensive assessment of the cardiovascular condition. Minimal training and expertise is required to operate the device and the app allows for its integration in any environment including the home-setting, thus creating a major global impact.

At school, Goel has served as President of the National Honor Society and founded her school’s science fair club, where she took the initiative to lead programs that introduce STEM (science, technology, engineering, mathematics) to students in her district. Aside from her scientific interests, Goel practices calligraphy and painting as self-expression.

Goel plans to major in either computer science or computer engineering in order to obtain in-depth knowledge of both software and hardware.

“We are thrilled to recognize the 2018 Davidson Fellows not only for their incredible projects, but also for the journey they forged to reach this point,” said Bob Davidson, founder of the Davidson Institute. “Every year I am amazed by the depth of the Fellows’ accomplishments. Through encouragement and recognition, the Davidson Institute for Talent Development anticipates that gifted students like these will be among the pioneers who will solve the world’s most vexing problems.”

The 2018 Davidson Fellows will be honored at a reception in Washington, D.C., on Friday, September 28.

The Davidson Fellows Scholarship program offers \$50,000, \$25,000 and \$10,000 college scholarships to students 18 or younger, who have completed significant projects that have the potential to benefit society in the fields of science, technology, engineering, mathematics, literature and music. The Davidson Fellows Scholarship has provided more than \$7.5 million in scholarship funds to more than 300 students since its inception in 2001, and has been named one of the most prestigious undergraduate scholarships by [*U.S. News & World Report*](#). It is a program of the Davidson Institute for Talent Development, a national nonprofit organization headquartered in Reno, Nev. that supports profoundly gifted youth.

About the Davidson Institute

Founded by Bob Davidson in 1999, the Davidson Institute for Talent Development recognizes, nurtures and supports profoundly intelligent young people, and provides opportunities for them to develop their talents to make a positive difference. The Institute offers support through a number of programs and services, including the Davidson Fellows Scholarship and the [*Davidson Academy of Nevada*](#). For more information about the 2018 Davidson Fellows, please visit www.DavidsonGifted.org/Fellows-Scholarship.

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High-resolution photos are available at www.DavidsonGifted.org/Fellows-Scholarship.