Davidson Institute
for Talent Development

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MONTCLAIR TEEN AWARDED $25,000 FOR CREATING NETWORK TO IMPROVE INDOOR AIR QUALITY
Eeshan Tripathii to be Named a 2018 Davidson Fellow

Montclair, N.J. – The Davidson Institute for Talent Development has announced the 2018 Davidson Fellows. Among the honorees is 16-year-old Eeshan Tripathii of Montclair. Tripathii won a $25,000 Davidson Fellows Scholarship for his project, *Utilizing Recurrent Neural Networks Long Short-Term Memory Algorithms to Create a Smart Ductless Indoor Air Quality Improvement Network System*. Tripathii is one of only 20 students across the country to receive this honor.

"I am truly excited and honored to be named a Davidson Fellow," said Tripathii. "This acknowledgement is not just a highly motivating endorsement of four years of research, but also a boundless source of inspiration for my future endeavors."

Poor indoor air quality (IAQ) has been identified as the biggest environmental killer of the century, claiming an estimated 4.3 million lives each year. Tripathii's research directly tackles the problem of poor IAQ, and has the potential to prevent diseases, save lives and improve productivity. Tripathii created an integrated solution that brings together quantification of IAQ and auto-responsive air remediation capabilities at an affordable price. The network system utilizes a recurrent neural network, long short-term memory algorithms and stochastic simulations to create a smart, proactive, ductless network that focuses on improving IAQ while maintaining thermal and cost efficiency.

Tripathii also has a passion for architecture and received four 2018 Scholastic Gold Architecture & Industrial Design awards. His work has been featured at the Metropolitan Museum of Art. He also participates in hackathons, studies creative machine learning programs and serves as the co-head of his school's chess club. Tripathii is a rising senior at The Dalton School.

"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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