



Davidson Institute
Fellows Scholarship

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MCLEAN TEEN AWARDED \$50,000 SCHOLARSHIP FOR ENGINEERING PROJECT CREATING AN ULTRA LOW-COST, MIND-CONTROLLED PROSTHETIC ARM

Benjamin Choi Named A 2022 Davidson Fellows Scholarship Winner

McLean, Va. – The Davidson Fellows Scholarship Program has announced the 2022 scholarship winners. Among the honorees is 18-year-old Benjamin Choi of McLean. Choi won a \$50,000 scholarship for his project, *An Ultra-Low Cost, Mind-Controlled Transhumeral Prosthesis Operated via a Novel Artificial Intelligence-Driven Brainwave Interpretation Algorithm*. He is one of only three students across the country to be recognized as a Davidson Fellows Laureate and one of only 21 scholarship winners in the 2022 Fellows class.

“Being named a Davidson Fellows Laureate means so much to me,” said Choi. “It’s truly an honor to be recognized alongside such an inspiring group, and words cannot express my gratitude to all those who have supported me along the way.”

For his project, Choi developed the world’s first ultra-low cost, mind-controlled prosthetic arm using his novel AI algorithm for noninvasive brainwave interpretation. His prosthetic arm achieves superior performance to the best prosthetic limbs available today and is more than 1,500 times less expensive with the potential to improve the lives of amputees across the globe.

Choi will attend Harvard University in the fall. Outside of research, his interests include playing violin in various orchestras, writing for numerous literary journals, and playing squash on the national junior circuit.

“This year’s class of Davidson Fellows Scholarship recipients continue to find new and innovative ways to pursue their educational and research journeys while striving to solve some of the world’s most vexing problems,” said Bob Davidson, founder of the Davidson Institute. “These students have not just overcome the challenges of doing significant work during a pandemic; our Fellows have embraced the new opportunities that have come from creative, outside-the-box thinking to use technology to expand their networks of mentors and access new sources of information and data, resulting in a very diverse portfolio of projects.”

The 2022 Davidson Fellows will be honored during a reception at the Massachusetts Institute of Technology and with a virtual project presentation ceremony in September 2022.

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 \$9 million in

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scholarship funds to 407 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, 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 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 2022 Davidson Fellows, please visit: [DavidsonFellows.org](#)

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High-resolution photos are available at
[DavidsonFellows.org](#)