



For Immediate Release
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CHANDLER TEEN AWARDED \$50,000 SCHOLARSHIP FOR ENGINEERING INNOVATION IN STROKE REHABILITATION

Brad Wu Named 2025 Davidson Fellows Scholarship Winner

CHANDLER, Ariz. — Brad Wu, 17, of Chandler, has been awarded a \$50,000 Davidson Fellows Scholarship for his engineering project, which created a lightweight, brain-controlled robotic arm device to help stroke patients regain movement. The Davidson Fellows Scholarship is one of the nation's most prestigious honors for students 18 and younger. His award is part of the program's 25th anniversary year, which is granting a record \$825,000 to 21 students nationwide.

“Joining a community of passionate, intellectually driven peers — whether in STEM or the humanities — gives me the confidence to pursue my passion for engineering with greater purpose,” Wu said. “I will be forever grateful to the Davidson Institute for its generous support, which empowers me to pursue higher education and future career.”

Wu's project combines a brain-computer interface that detects when patients are actively engaging, an adjustable forearm exoskeleton and real-time vibration feedback to guide recovery. Using advanced machine learning, it interprets brain activity to support personalized rehabilitation. Designed to be low-cost and scalable, the device could make high-quality stroke therapy more accessible, reducing reliance on caregivers and improving independence for millions of patients worldwide.

A senior at Arizona College Prep High School, Wu is a two-time ISEF Grand Award winner and serves as president of his school's AI Club. He is also a Youth Council member in local government, helping develop programs that address youth health issues. In addition to his passion for engineering, Wu has trained in Kung Fu for 12 years, specializing in Tai Chi and Rope Dart.

“For 25 years, the Davidson Fellows Scholarship has recognized some of the most remarkable research undertaken by young people in the nation,” said Bob Davidson, founder of the Davidson Institute. “The 2025 class of Fellows continues to raise the bar for achievement as we celebrate this milestone year, marked by innovation, perseverance and the hundreds of alumni whose work continues to make a lasting difference in their fields and communities.”

The Davidson Fellows Scholarship program offers 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 \$10.7 million in scholarship funds to 469 students since its inception in 2001, and has been named one of the most prestigious

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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 2025 Davidson Fellows, please visit: [DavidsonFellows.org](#).

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