



**Davidson Fellow
Kadir Annamalai**

(\$10,000 Scholarship Recipient)



Personal Info

Kadir Annamalai
Age: 17
Saratoga, California

School, College and Career Plans

Kadir is a recent graduate and valedictorian of Monta Vista High School. This fall he will attend Princeton University majoring in engineering with minors in management and finance. He would like to combine a strong foundation in engineering with a background in business.

Davidson Fellows Submission (*Science: Engineering*)

In his project "Growth of Germanium Nanowires through the Vapor Liquid Solid Mechanism," Kadir created straight and aligned growth of wires from the metal Germanium at the nanoscale, approximately the width of two molecules. Since these wires are so small, they must be grown chemically by vaporizing the metal and letting it cool down molecule by molecule on a piece of silicon. Kadir optimized this growth process so these wires could then be used in future thermoelectric devices such as power generators and circuit boards.

Biography

Throughout high school, Kadir challenged himself rigorously by taking numerous Advanced Placement courses, including AP Physics, AP English and AP Economics. During this time he also worked at the NASA Ames Research Center.

At NASA, Kadir was assigned to the Center for Nanotechnology, where he was introduced to the exciting topic of nanowires. Through this experience, Kadir gained a strong foundation of technical expertise and wrote a full-length scientific work discussing his research, which resulted in his Davidson Fellows submission.

Kadir has been an officer in Future Business Leaders of America for three years and has competed in various events at the national level. As an active member of the Speech and Debate Club, he has participated in over 20 competitions, which have refined his ability to persuasively communicate. He has also performed in more than 10 school and community drama and musical productions. Kadir is working to become a leading business professional in the technology industry and hopes to one day run his own company.

Please see next page.

The Davidson Institute for Talent Development

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(Cont.)

Honors/Awards

- 2005 Davidson Fellow
- 2004, 2003 National Finalist in North-South Foundation Vocabulary Contest
- 2004 Member of the National Society of High School Scholars
- 2004 Who's Who Among High School Students
- 2004 National Merit Scholar
- 2004 Award of Excellence as a NASA Intern
- Future Business Leaders of America Awards
 - 2005 National Level International Business, Second Place
 - 2004 State Level International Business, First Place
 - 2005 State Level Economics, Second Place
 - 2004, 2003 State Level Entrepreneurship, Fourth Place
 - 2003 State Level Intro to Business, Fourth Place
- 2002 Achieved Rank of Eagle Scout, Highest Rank for Boy Scouts
- 2002 Inducted into the Order of the Arrow: Honorary Scouting Organization
- 2001 Award for Outstanding Leadership in Boy Scouts

Community Activities

Since 2001, Kadir has participated in numerous community service activities through the Octagon Community Service Club.

In 1999 and 2001, Kadir was a part of the Counselor-in-Training Programs with Saratoga Recreation, and in 2003 he volunteered as staff for the High Adventure Program at Camp Hi-Sierra.

Boy Scouts has been a big part of Kadir's life for the past 10 years. After becoming an Eagle Scout, Kadir has been actively involved in his troop by helping younger scouts advance and by planning troop outings.

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