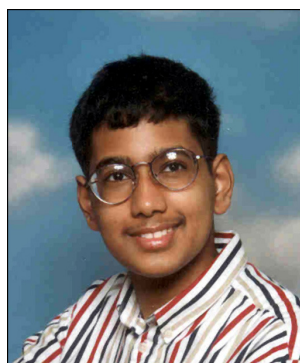




## Davidson Fellow Laureate

Chintan Hossain

(\$50,000 Scholarship Recipient)



### Personal Info

Name: Chintan Hossain

Age: 14

Wilmington, Delaware

### School Info

Chintan attends the Charter School of Wilmington, a magnet school in Wilmington, Delaware. He will be a junior this fall.

### Davidson Fellows Submission (Technology: Mathematics)

Chintan impressively used nonlinear dynamics and computer technology to create a cardiovascular model to study normal and abnormal heart activity in his project, *Conquering the Heart Using Nonlinear Dynamics*. This model may be used to predict and control the effect of a pacemaker and certain drugs on cardiac cells.

### Biography

While his parents immigrated from Bangladesh, Chintan was born in Manhattan, New York in 1986. When Chintan was born, his parents wanted to give him an uncommon name that had a strong meaning. They named him "Chintan," which means "the act of thinking." Chintan now lives in Wilmington, Delaware with his mother, father and brother. After skipping the eighth grade, he entered the Charter School of Wilmington. Chintan enjoys mathematics and science. He has won a number of awards at State and National Mathematics and Science competitions, as well as several awards at Talent Searches.

### College/Career Plans

Chintan hopes to attend MIT, Harvard or one of the other top-tier universities. He is also interested in continuing on to earn his graduate degree with an emphasis on one of the physical sciences.

*Please see next page.*



## **Davidson Fellow Laureate**

Chintan Hossain

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### **Extracurricular activities:**

Astronomy Club, Rocket Club, Solar Wind Club, Math League, Science Olympiad, Science Fair, Math Camp

### **Honors/Awards**

- Davidson Fellows Laureate, September, 2001
- Physics Olympiad: Semifinalist for the 2001 US National Team
- Invited to take the American Invitational Mathematics Examination (AIME), 2000 and 2001
- 2000 Math League Press, Placed among the top 20 (21 states participating)
- 2001 Math League Press, Placed among the top 10 (21 states participating)
- Member of the Johns Hopkins Study of Exceptional Talent (SET)
- 1997 Johns Hopkins Talent Search (1<sup>st</sup> place in Math, State of Delaware)
- 1999 Johns Hopkins Talent Search (National Recognition and State of Delaware, 1<sup>st</sup> Place in Math)
- 1996 Delaware Math League (State 3rd Place Individual) 1997 Delaware Math League (State 1st Place Individual) 2000 Delaware Math League (State 1st Place Team) 2001 Delaware Math League (State 2nd Place Team)
- 1997 Delaware Invitational Math Meet (State 1st Place Individual)
- 1998 Delaware Invitational Math Meet (State 1st Place Individual)
- 1999 Delaware Invitational Math Meet (State 1st Place Individual)
- 2000 Delaware Invitational Math Meet (State 1st Place Team)
- 2001 Delaware Invitational Math Meet (State 2nd Place Team)
- 1999 Science Olympiad (1 State Silver Medal)
- 2000 Science Olympiad (2 State Bronze Medals)
- 2001 Science Olympiad (3 State Gold Medals)
- 2001 Science Fair (Best of Show, New Castle County Science Expo)  
Project Title: Conquering The Heart Using Nonlinear Dynamics