

***Extracurricular activities related to science and math:***

*Science fair competitions 2005-2009:*

2006-2007: The Effect of Weight Distribution on a Quarter Midget Racecar

- Pennsylvania Junior Academy of Science (PJAS) regional competition: 1<sup>st</sup> place w/perfect score in category of Physics
- Montgomery County Science Research Competition: 1<sup>st</sup> place in category of Physics
- Delaware Valley Science Fairs (PA, NJ, DE): 1<sup>st</sup> place in Physics, \$50 category award
- PJAS state competition: 1<sup>st</sup> place in Physics

2007-2008: An Analysis of Alternative Fuels for Automotive Engines

- PJAS regional competition: 1<sup>st</sup> place in category of Environmental Science
- Montgomery County Science Research Competition: 1<sup>st</sup> place, Naval Science Award for outstanding Environmental Science Project
- Delaware Valley Science Fairs: 1<sup>st</sup> place in Environmental Science, Future Scientist Award from USDA Eastern Regional Research Center
- PJAS state competition: 1<sup>st</sup> place in Environmental Science

2008-2009: Reducing Lawn Mower Emissions with Oxygenate Fuel Additives

- PJAS regional competition: 1<sup>st</sup> place in category of Environmental with a perfect score
- Montgomery County Science Research Competition: 2<sup>nd</sup> place with special award from US Navy
- Delaware Valley Science Fairs: 1<sup>st</sup> place in Environmental Category, partial scholarship to Drexel Univ., merit scholarship to attend University of the Sciences in Philadelphia, and United States Army certificate of achievement from the Army, CBS 3 Doug Kammerer Award
- PJAS state competition: 1<sup>st</sup> Place award and outstanding Pennsylvania Science Talent Search Junior, Penn State University Scholarship to Eberly College of Science and College of Engineering

*Science and math activities sponsored by Souderton Area High School:*

- 2006-2007: active member of Students Against Violating the Earth (SAVE), an environmental studies and community outreach organization. Participated in community recycling program
- 2006-2009: active member of the SAHS Robotics Club, a group that designs, builds, and tests robots for FIRST Tech Challenge competitions
- 2009-2010 Robotics Club Vice President and team leader for FIRST Tech Challenge Competitions
- 2009 Rensselaer Polytechnic Institute Medal Award for outstanding academic achievement in the study of mathematics and science

*Other science and math activities:*

- 6/19-8/15/2007: Took a Probability and Statistics course at DeSales University via a scholarship from John Hopkins Center for Talented Youth. Received an “A” in the course
- 10/24/2007: Attended NanoDay at the University of Pennsylvania. Was invited to present science fair project and attend full day of educational programs related to the Nano/Bio Interface Center
- 10/27/2007: Attended Explorations in Nanoscale Science and Engineering at Drexel University through John Hopkins Family Academic Program. Watched presentations and participated in workshops that related to nanoscience
- 4/28/2008: Invited to USDA Eastern Regional Research Center to present science project and attend a tour of their facility
- 6/26/2008 Invited to DuPont Experimental Station to present science project and listen to a lecture on environmental fuel technology
- August 4-8 2008: Traveled to IDEO, Inc, a world-renowned design firm located in Palo Alto, Ca. Attended Design Boot Camp. Activities included:
  - Discussion of the design process
  - Team-specific design assignments
- September 2008: Organized AP Calculus study group, which met at the house while teachers were on strike in the school district
- 6/22/09—6/26/09 Engineering Summer Camp at Montgomery Co. Community College. Received first place on research project titled Autonomous Automotives
- 7/8/09-7/11/09 Attended Pennsylvania Free Enterprise week at Lycoming College in Williamsport, Pa. Simulated the operation of a small business for a 3-year period. Results were evaluated by panels of industry experts.
- 7/28/09-8/12/09 Earthwatch Student Challenge Award Recipient. Participated in: “Monitoring on the Mississippi” at Alice L. Kibbe Life Sciences Station, Hancock County, Illinois. Participated in studies of how ecosystems function and the influence human activities are having on the plants and animals that live there.

***Extracurricular activities not related to science or math:***

*Academic activities and achievements:*

- November 2009: Student of the Month (senior year)
- January 2009: Student of the Month (junior year)
- April 2008: Student of the Month (sophomore year)
- 2007: Inducted into National Junior Honor Society
- 2008: Inducted into National Honor Society
- 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> grade: Distinguished Honor Roll
- AP Scholar Award
- 2009 National Merit Scholarship Letter of Commendation
- 2008: Earned Scholastic Achievement Award (Top 5 percent of 10<sup>th</sup> grade class)
- 2009 Scholastic Achievement Award (Top 5 percent of 11<sup>th</sup> grade class)
- 2007-2009: Member of The Arrowhead, the school newspaper. Duties included all aspects of publishing a newspaper, including interviews, photos, advertising, layout, and distribution. In 2008-2009, became Copy Editor.
- April 17, 2009: attended team-building adventure experience at The Summit at New Life Island

*Leadership Roles:*

- 2009-2010, became Managing Editor of The Arrowhead, the award-winning SAHS newspaper. Duties included all aspects of publishing a newspaper, as well as graphic design work for businesses advertising in the paper
- 2007-2009: Member of a group that choreographs and performs a medieval fight at the Indian Valley Middle School Renaissance Fair. In 2008-2009, assumed leadership position in group
- 2007-2008: Member of Future Business Leaders of America. 1/08: Earned 3<sup>rd</sup> place in Public Speaking I at Regional Leadership Conference
- 2008-2009: Chosen as a Link Crew Leader. Became part of a select group of juniors and seniors that mentors incoming sophomores

*Community service:*

- 2007-2009: Volunteered with YMCA Kids Kare at Franconia and West Broad Street Elementary schools after school. Helped children with homework, supervised with puzzles, arts and crafts, and games
- July 2008-Nov 2008: Volunteer at Indian Valley Opportunity Center. Stocked food pantry for the needy
- September 2008: Volunteered as a marshal for the Uninvest Grand Prix, an international bicycle race
- 2008-2009: Member of Key Club, a community service organization that is part of Kiwanis Club
- 2009-2010 School year: Volunteered with the Kiwanis BUG (Bringing Up Grades) program. This involved tutoring 1<sup>st</sup> and 2<sup>nd</sup> graders in math and reading.

## Joseph K. Dille

### *Athletics:*

- 2007-2009: Active member of Varsity Spring Track team.
- 1998-2008: Quarter Midget racecar driver. Active member of Oaklane Quarter Midget Racing Club. Raced in 7 competitive classes, won many A-main events, held a track record (5.761s), and raced in regional and national events. Retired 10/12/08 per Quarter Midgets of America regulations after over 400 races. Continued membership in 2009 by volunteering at racetrack by being a corner worker, flagging races and helping train novice racers

### *Music:*

- 2007: Began to learn to play guitar