

Mathematical autobiography

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Mathematical background :

My love for mathematics began when I was a child, helping my father with his billings and account calculations. I have done my schooling in Montessori Public School, Suryapet. It provided a perfect environment for nurturing my interest in Mathematics and Physics. We had weekly Mathematics and Physics quizzes which influenced me to learn and practice more problems in Mathematics. My mathematics teacher Celina P, played an important role in my life by providing me support for my interests and also by imparting basic mathematics like *Algebra, Sets, Geometry* and *Functions*. I got second place in inter school mathematics quiz competition in 1997. This further fueled my zeal to learn more about mathematics other than the school curriculum.

During my two years of pre University College, I studied *Probability, Calculus* and *Coordinate Geometry*. It was in the pre university years I came across students from various parts of the country competing with each other to get placed into good engineering Colleges. That was my first encounter with the competition in real world. I worked really hard those two years and took Engineering entrance examination (EAMCET). I got placed among the top 2,000 of 200,000 people appeared for the entrance exam. I got into Osmania University, one of the finest institutes for pursuing under graduation in Engineering in India. I took Electronics and Communications engineering as my major of study in under graduation. During freshman and sophomore years as an undergraduate student I had courses on *Advanced Calculus, Differential equations, Matrices and Numerical Analysis*. I learnt more by explaining to my friends different topics of Calculus and I helped them figure out the difficulties they had. The presence of mathematics in every part of life is not known until I came across Harmonic Oscillators which are represented by second order differential equations and the Fourier transform which is the basis for Communication Engineering. I came to Ohio University for the Fall 2006 to pursue masters in electrical Engineering and also parallel masters in Applied Mathematics.

Current interests and future goals:

My Current area of interest is in the implementation of mathematical modeling and other techniques to effectively quantize the multipath error for enhancing Positional accuracy for a Stand alone Global Positioning System. In the future I want to work as a researcher in international Space research organizations.

Why am I interested in this project?

This is my first opportunity to involve in a research process. I view it as an opportunity to learn how to conduct a research as a team and acquire critical skills that will guide me throughout my career as a researcher.

Learning styles:

According to VARK test I have multimodal type of learning style. I have strong preference for Aural, Read/ write and Kinesthetic style of learning.