

# Harish Narayanan

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CAREER GOAL      *To pursue a career in the academia as a mechanics educator at a prestigious institution of higher learning.*

EDUCATION      ♦ **University of Michigan**, Ann Arbor, Michigan.  
Ph.D in Mechanical Engineering, expected graduation in 2007.  
♦ **University of Madras**, Madras, India.  
B.E in Mechanical Engineering, July 2002.  
Percentage Obtained: *80.7*  
♦ **Vidya Mandir**, Madras, India.  
All India Senior School Certificate Examination (C.B.S.E 12<sup>th</sup>), July 1998.  
Percentage Obtained: *89.0*  
♦ **Chettinad Vidyashram**, Madras, India.  
All India Senior School Examination (C.B.S.E 10<sup>th</sup>), July 1996.  
Percentage Obtained: *80.8*

ACADEMIC HONORS      ♦ Received a *Certificate of Merit* for excellent standard of academic work throughout 12<sup>th</sup> grade.  
♦ Secured the *First Rank in School Physics*, AISSCE 1998 (C.B.S.E 12<sup>th</sup>).  
Awarded a gold medal for the same.  
♦ Secured the *First Rank in Continuous Evaluation* for the third semester of my undergraduate program and was awarded a cash award for the same.  
♦ Secured the *Second Rank* in third semester University Examinations in college.  
♦ Maintained an excellent level of performance in engineering mathematics and mechanics subjects. *Secured 100% in fourth semester engineering mathematics paper*  
♦ Received the “*Sachivothama Sir C.P.Ramaswamy Aiyar Endowment Scholarship*” from the University of Madras (2002 – present) for excellent academic performance at the undergraduate level.  
♦ Secured admission into the research program (M.Sc(Engg)) at the *Indian Institute of Science, Bangalore*, to the hydromechanics stream with full scholarship.

ACADEMIC INTERESTS      My academic interests primarily relate to classical mechanics and the tools involved in mechanics related computation. Specifically, they include:  
· Mechanics – General Classical Mechanics, Solid Mechanics, Machine Mechanics and Design  
· Material Science  
· Applied Mathematics and Physics  
· Simulation of physical systems on the computer

RELEVANT COURSES	<p>The following is the list of graduate level courses I am currently enrolled in at the University of Michigan.</p> <ul style="list-style-type: none"><li>· ME 502 – Methods of Differential Equations in Mechanics</li><li>· ME 511 – Solid Continua</li><li>· ME 541 – Advanced Mechanical Vibrations</li><li>· ME 506 – Computational Modeling of Biological Tissues</li></ul> <p>Some of the relevant courses covered during my undergraduate program include:</p> <ul style="list-style-type: none"><li>· Engineering Mathematics - 2,3,4 and Numerical Methods</li><li>· Applied Physics</li><li>· Engineering Mechanics -1,2</li><li>· Mechanics of Solids</li><li>· Material and Metallurgical Science</li><li>· Mechanics of Machines - 1,2</li><li>· Machine Design</li><li>· Design of Transmission Systems</li><li>· Engineering Drawing and Machine Drawing</li><li>· Computer Aided Design and Computer Aided Manufacturing</li><li>· Computer Programming</li></ul>
RESEARCH EXPERIENCE	<p>Carried out a research project with a team on <i>Gaseous Petroleum Fuels for Automobiles</i> which involved a modification of a conventional gasoline run vehicle to run on Liquefied Petroleum Gas (L.P.G) and proceeded with a systematic comparison of its performance with the original system with regards to efficiency and emissions. This project was carried out under the guidance and supervision of Dr.B.S.Murthy (<i>former Head of the Mechanical Engineering Department, IIT, Madras</i>). Our work was later accepted as an SAE paper.</p>
COMPUTER SKILLS	<ul style="list-style-type: none"><li>◇ Linux, MS Windows, UNIX, Mac OS, DOS</li><li>◇ C++, C, Java, Pascal, Basic, PHP, Shell Scripting, HTML</li><li>◇ AutoCAD, IDL, Maple, Mathcad, Adobe Photoshop, MS Office</li><li>◇ GIMP, MySQL, Apache, OpenOffice, L<sup>A</sup>T<sub>E</sub>X , GNU Emacs and other open source software</li></ul>
OTHER INTERESTS	<ul style="list-style-type: none"><li>◇ Computers (specifically Open Source Software) and new technology</li><li>◇ Writing technical articles related to Open Source Software</li><li>◇ Digital Art and Graphics Programming</li><li>◇ Science fiction literature</li><li>◇ Classical (vocal and instrumental) Music</li></ul>