

Gowtham

Sr. Academic Consultant
Information Technology Services & Security
Michigan Technological University

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Houghton, MI 49931 USA
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Education

† **Ph.D in Engineering Physics**, 2007

Development of A High Performance Parallel Computing Platform and Its Use in the Study of Nanostructures: Clusters, Sheets and Tubes

Department of Physics, Michigan Technological University, Houghton, MI.

† **MS in Physics**, 2002

Department of Physics, Bangalore University, Bangalore, India.

† **BS in Physics, Mathematics & Statistics**, 2000

MES College of Arts, Commerce & Science, Bangalore University, Bangalore, India.

† **Diploma in Computer Applications**, 1999

ExperTek Computers, Bangalore, India.

Research Interests

1. Design, development, maintenance and optimization of parallel computing platform
2. Development of technological tools that aid/assist research and classroom teaching
3. Interaction of biological matter with nanomaterials
4. Electronic structure calculations of nanoclusters

Experience

1. **Sr. Academic Consultant** (01/2011 - present)
Information Technology Services, Michigan Tech
2. **Adjunct Assistant Professor** (11/2011 - present)
Department of Physics, Michigan Tech
3. **Faculty Advisor** (09/2011 - present)
Linux/UNIX Users Group, Michigan Tech

4. **Research Scientist** (05/2009 - 01/2011)
Department of Physics, Michigan Tech
5. **Wiley Science Advisor** (2010 - present)
John Wiley & Sons, Inc.
6. **Application Developer** (02/2008 - 04/2009)
Program Management Operational Support System (PMOSS)
AT&T Research & Development HQ
7. **Graduate Research Assistant** (09/2002 - 01/2008)
Department of Physics, Michigan Tech
Advisor: Dr. Ravindra Pandey
8. **Programmer** (08/2006 - 01/2008)
Information Technology Services & Security (ITSS), Michigan Tech
9. **Consultant** (06/2006 - 12/2006)
Center for Computer-Aided Learning & Instruction (CCLI)
Humanities Department, Michigan Tech
10. **Systems Administrator** (05/2003 - 01/2011)
Computational Materials Science Group, Department of Physics, Michigan Tech
11. **Cluster Workbench** (2005 - present)
 - (a) learn different ways of building a linux cluster
 - (b) develop tools that help make maintenance easier
 - (c) develop utilities that help make users' experience better
 - (d) learn parallel programming

Material learned from this project was used in teaching *Computational Methods in Physics* (PH4390), *Computer Simulations in Physics* (PH4395) and *Introduction to Scientific Programming* (MA5903) at Michigan Tech
12. **Personal Projects**
 - (a) L^AT_EX template for MS Thesis/PhD Dissertation at Michigan Tech
 - (b) Showcase (photo-blogging software): <http://sgowtham.net/showcase/>
13. **Editor** (2001 - 2002)
Classical Mechanics by Dr. K N Sreenivasa Rao (ISBN: 8173714363)
Universities Press, India

References

Available upon request