

## Vineet Bhatawadekar

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- PERSONAL** 505 University Ave SE Minneapolis MN 55414 [umn.edu/~bhat0089](http://umn.edu/~bhat0089)  
612-770-5256 [bhat0089@umn.edu](mailto:bhat0089@umn.edu)
- EDUCATION** **MS in Electrical and Computer Engineering** Fall 2008 - Present  
University of Minnesota- Twin Cities  
*Key Areas: Robotics, Computer Vision, Robotic Sensor Networks*
- B.Tech Electronics and Telecom Engineering** Fall 2004 - Spring 2008  
The College of Engineering, Pune  
*Key Areas: Digital Signal Processing, Control Systems*
- PROJECTS**
- Reconstruction of Moving Objects**  
*Under Prof. Dr. Nikos Papanikolopoulos*  
Developed Algorithms for optimal View Planning and 2D Reconstruction of Moving Objects.
- Navigation and Localization in a Robotic Sensor Network**  
*Under Prof. Dr. Volkan Isler*  
Focused mainly on Vision-based localization with artificial landmarks. Worked on Adaptive Color Filtering and Distance Measurement with a monocular camera.
- Robocon Asia**  
*Under Prof. S.S. Ohol*  
Team Lead in Design and Development of autonomous robots to perform in the Asia-Pacific Level Robotics Contest. Developed Navigation Systems using Inertial and Optical sensors for pick-and-place type mobile robots.
- Advanced Audio Compression**  
*Under Prof. S.P. Mahajan in Association with [Sasken Communication](#)*  
Developed an AAC codec using Temporal Noise Shaping and Perceptual Noise Substitution methods. Achieved an improvement of upto 30% over standard MP3.
- Micromouse**  
Built an autonomous maze solving Micromouse as per the IEEE standards. Complete Implementation of IR sensors, step motor driving circuits and Floodfill algorithm. Competed in International Contest at IIT Bombay.
- EXPERIENCE**
- Student Head, [Robot Study Circle](#)** Fall 2005 - Spring 2008  
**Robotics and Automation Lab at The College of Engineering Pune**  
Design and Development of Modular Robotics systems, Lead Instructor in various workshops conducted for High School and Junior Students. Taught Microcontrollers and basic Mobile Robot Mechanics.
- Technical Support Assistant, Phi AudioCom, Pune** May 2008 - August 2008  
Maintenance and Upgradation of Office Computer Equipment, Software and related peripherals.
- SKILLS**
- Programming Languages:**  
C++, Java, Matlab
- Tools and Technologies:**  
Linux, Unix, Windows, Intel IPL, OpenCV, Player/Stage, SVN, LATEX