

James D. Van de Ven

3648 Woody Lane
Minnetonka, MN 55303

Ph: (612) 916-1765

e-mail: vand0325@umn.edu

URL: <http://www.menet.umn.edu/~vandeven/mainpage.htm>

EDUCATION:

University of Minnesota- Twin Cities

- Ph.D. student in Mechanical Engineering specializing in Machine Design
- Dr. Arthur Erdman - Advisor
- Anticipated Completion Spring 2006
- Cumulative Grade Point Average: 3.84

South Dakota School of Mines and Technology

- BS Mechanical Engineering
- Cumulative Grade Point Average: 3.63

PROFESSIONAL EXPERIENCE:

Arctic Cat Inc., Thief River Falls, MN

4/2004 – 10/2004 – Contract project designing a novel snowmobile suspension for a new concept vehicle.

Pando Technologies, Minnetonka, MN

5/2003 - 12/2003 – Mechanical engineer developing a novel autonomous robot including responsibility for the positioning system, propulsion system, and control system.

MTS Systems, Inc. - Mechanical Testing Division, Eden Prairie, MN

5/1999 – 9/2001 – Four-semester co-op conducted mechanical design, testing, research and development, and product support under supervision of Brad Schulz and Steve Lemmer (952-937-4000 front desk).

Legend Air Suspension, Rapid City, SD

Spring 2001 – Internship at South Dakota School of Mines and Technology conducting testing of aftermarket air-ride suspension system for a Harley Davidson soft-tail motorcycle under the supervision of Dr. Dan Dolan (605-394-1273)

Burgess Industries, Plymouth, MN

Summer 1998 – Internship working on design for manufacturing on plate benders used in printing press machines under supervision of D.J. Burgess (763-553-7800).

MTS Systems, Inc. – Vehicle Dynamics Division, Eden Prairie, MN

Summer 1997 – Internship doing research and development work on automobile suspension testing system under supervision of Andrew Barber (952-937-4707).

MTS Systems, Inc. – Vehicle Dynamics Division, Eden Prairie, MN

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Fall 1996 - Spring 1997 - Mentor Connection student through honors program of district #287, under supervision of mentor Paul Carroll (952-937-4874).

University of Minnesota - Mechanical Engineering Heat Transfer Laboratory
Summer 1996 - High School Fellowship under the direction of Professor Avram Bar-Cohen (612-626-7244).

University of Minnesota - Cell Biology and Neuroanatomy Laboratory
Summer 1995 - High School Fellowship under the direction of Professor Mary Porter (612-626-2621) and Dr. Richard Linck (612-624-5179).

AWARDS:

April 2004	Passed the Written Preliminary Examination, University of Minnesota, Mechanical Engineering Department. Paper Titled: "Laser Transmission Welding of Thermoplastics."
March 2002	Awarded Graduate School Fellowship at the University of Minnesota.
December 2001	Graduated from South Dakota School of Mines and Technology with High Honors.
July 2001	Passed the Fundamentals of Engineering Exam.
May 24, 2000	Named Outstanding Student in Technical Communications and given the Dorothea Riter Award for Excellence in English.
February 2000	Awarded membership to the mechanical engineering honor society Pi Tau Sigma.
January 2000	Awarded membership to the engineering honor society Tau Beta Pi.
May 4, 1998	Named Mechanical Engineering Department Scholar and awarded an academic scholarship by South Dakota School of Mines and Technology Mechanical Engineering Department in recognition thereof.
1997-2001	Placed on Dean's List at South Dakota School of Mines and Technology.

RESEARCH EXPERIENCE:

5/2003-current	Research Assistant for Dr. Arthur Erdman researching various topics related to the performance, assembly, and aesthetics of windows at Andersen Windows Corporation.
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TEACHING EXPERIENCE:

Spring 2004	Teaching Assistant for ME5286: Robotics for Dr. Max Donath. Responsible for designing and teaching class sessions, creating final examination, updating 7 degree-of-freedom robot arm for demonstration purposes, and holding office hours.
Spring 2004	GRAD 8200, Active Learning and Course Design in the Sciences.
Fall 2003	GRAD 8101, Teaching in Higher Education. Part of the Preparing Future Faculty program emphasizing active learning in the classroom.
2000-2002	Captain/Chief Engineer of SAE Mini Baja team at South Dakota School of Mines and Technology

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- 1993-2001 Equestrian Instructor -- trained students ages 5-25 in horse management and riding for North Star Pony Club, Long Lake, MN. Reference: Patty Humphries, DC of Canterbury Pony Club (952- 442-5321).
- Spring 1996 Student Advisor to Orono Middle School Mathematics and Science Club through Melaine DeLuca (763-449-8351), the director of Community Education.

PRESENTATIONS:

- February 16, 2005 "Vehicle Dynamics and Robot Vehicles." Guest lecture for Robotics class for Dr. Max Donath, professor of Mechanical Engineering, University of Minnesota.
- May 13, 2004 "Possibilities for Laser Welding of Plastics." Presentation at Andersen Windows Corporation (Bayport, MN) presenting a summary of a literature review and future possibilities of the technology.
- Feb. 10, 2004 "Communications in Engineering." Guest speaker in a Technical Communications class for Barb Horvath, professor of Rhetoric, University of Minnesota
- Sept. 11, 2003 "Silverado Profile Development Leakage and Springback Testing." Presentation at Andersen Windows Corporation (Bayport, MN) summarizing the results and recommendations of testing conducted.

PUBLICATIONS:

- Oct. 1, 2004 Van de Ven, J., and Stackley, M. "Lowering Upender Design and Synthesis." ASME 2004 Design Engineering Technical Conferences & Computers and Information Conference, Salt Lake City, Utah, USA.

SEMINARS:

- August 31, 2004 "Active Learning in the Sciences." Seminar by Dr. Thomas Molitor, Center for Teaching and Learning, University of Minnesota.
- August 30, 2004 "Getting Students to be Partners in the Learning Process." Seminar by Dr. Joyce Weinsheimer, Center for Teaching and Learning, University of Minnesota.
- June 3, 2004 "Active Learning and the Use of Powerpoint in Teaching." Seminar by Dr. William Rozaitis, Center for Teaching and Learning, University of Minnesota.
- April 12, 2004 "Interview for Jobs in Academia, Institutional Fit." Seminar by Dr. Katherine Hirsh, Center for Teaching and Learning, University of Minnesota.

REFERENCES:

- Dr. Arthur Erdman, Mechanical Engineering Professor (U of MN) – (612-625-8580)
Mr. Brad Schulz, Mechanical Engineering Supervisor at MTS Systems – (952-937-4822)
Mr. Steve Lemmer, Mechanical Engineering Supervisor at MTS Systems – (952-937-4000)
Dr. Dan Dolan, Mechanical Engineering Professor (SDSMT) – (605-394-1273)