

# Katherine D. Voorhies

## Current Address

800 Houndschase Lane  
Apartment D  
Blacksburg, VA 24060  
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## Permanent Address

26 Brookview Rd  
Rochester, NY 14624  
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Education Virginia Polytechnic Institute and State University Blacksburg, VA  
M.S., Mechanical Engineering, May 2003  
Overall QCA 4.0/4.0, Mechanical Engineering QCA 4.0/4.0

Virginia Polytechnic Institute and State University Blacksburg, VA  
B.S., Mechanical Engineering, May 2002  
Overall QCA 3.62/4.0, Mechanical Engineering QCA 3.65/4.0

University of Wales, Swansea Great Britain  
Study Abroad, Mechanical Engineering, Fall 2000  
QCA 4.0/4.0

## Experience

### **Graduate Research Assistant, Impact Biomechanics Lab**

Current Mechanical Engineering, Virginia Tech Blacksburg, VA

- Principle Investigator for full research assignment
- Design and development of experiment, purchase of parts, assembly of experiment
- Evaluation of data using Microsoft Excel and Finite Element modeling using ANSYS
- Authoring article for journal submission
- Experienced in preparing human tissue for testing

### **Undergraduate Assistant, Impact Biomechanics Lab**

Spring 2001-Spring 2002 Mechanical Engineering, Virginia Tech Blacksburg, VA

- Formatted journal articles for publication
- Implemented research database

### **Wilderness First Responder, Camp Counselor**

Summer 2001 Camp Merri-Mac/Timberlake Black Mountain, NC

- Main medical person on wilderness trips (Certified Wilderness First Responder)
- Organized, planned and led wilderness backpacking trips
- Responsible for twenty 10 year old children, 24 hours a day

### **Honeywell Co-Op**

Summer 1999/2000, Fall 1999 Honeywell, Inc. Richmond, VA

- 6 Sigma Greenbelt trained
- Designed and installed an oil drip tray on Nylon fiber machines to reduce wasted packages from oil stains
- Responsible for daily reports using Minitab and NWA quality analyst

### **College of Engineering Tutor**

Spring 1999 Virginia Tech Blacksburg, VA

- Assisted underclass engineering students with calculus and physics material

## Activities

Spring 2001-Spring 2002 Hokie Ambassadors (Admissions Tour Guide)  
Spring 2000-Spring 2001 Tau Beta Pi, National Engineering Honor Society  
Fall 1998-Spring 2001 ASME  
Spring 1998 Symphonic Band  
Fall 1997-Fall 1998 Marching Virginians, Marching Band

## Honors

Fall 2001, Spring 2002 Monte Alan Marcum Scholarship (VT)  
Fall 1997-Current Faculty Honor Scholarship (VT)  
Fall 1997-Current Dean's List  
Fall 1997-Spring 1998 T. Marshall Hahn Engineering Scholarship (VT)  
Fall 1997 Erdman Anthony Scholarship (Local)  
Fall 1997 Lutheran Brotherhood Scholarship (Local)