

Kevin M. Hoopes

Education

BS Mechanical Engineering, Mathematics Minor, Brigham Young University

- Graduation August 2011

Performance

- 780 Math and 570 Verbal on the GRE
- 3.7/4.0 GPA at BYU

Technical Skills

Computer-Aided Analysis

- Knowledgeable in Matlab as well as simulation tools such as ANSYS, Fluent, and OpenFOAM
- Experience with visualization packages such as ParaView, Tecplot, and EnSight

Computer and Programming and Experience:

- Fluent in PHP, JavaScript, and HTML; working knowledge of procedural C++, especially VTK libraries
- Expertise in Microsoft Office products
- Able to quickly learn and master new computer languages, systems, and complex applications
- Expertise in Linux and Unix

Foreign Language:

- Able to fluently read, write, and speak Spanish
- 19 credit hours of University-level Spanish at BYU

Experience

Undergraduate Research Assistant, BYU – Dr. Steven Gorrell, 5/10–8/11

- Researching methods to automate the extraction and identification of flow features in Computational Fluid Dynamics simulations
- Developed proprietary implementation of an algorithm to detect presence of separation and attachment lines using C++ and VTK libraries
- Investigating methods for extracting flow features concurrently from large scale CFD simulations running on BYU's supercomputer

Aerodynamics Team Member, Sunbeam 7 Solar Airplane Project – BYU, 4/09–4/10

- Worked with other students in an effort to design and build the aerodynamics and structure for an unmanned aerial vehicle able to fly continuously
- Learned how to accomplish goals and overcome problems as a member of an engineering team
- Developed, tested, and implemented new wing structure system; saved weight, cut production time, drastically reduced cost, and increased airfoil performance

Founder, ScanMySlides.com 9/09–Present

- Created a successful business scanning 35mm slides; maintain on average 10 clients simultaneously as well as manage an online marketing campaign
- Wrote automation software to significantly reduce image post-processing time
- Reengineered slide scanning mechanism, reducing slide jamming three fold

Service and Membership

Volunteer Representative, The Church of Jesus Christ of Latter-day Saints, Houston TX 7/05–8/07

- Provided leadership, training, and guidance for 6 volunteer representatives
- Developed leadership, teaching, interpersonal, and communication skills

Boy Scouts of America: Eagle Scout