

Cengiz B. Akinli

Space Systems Simulation Laboratory
Department of Aerospace and Ocean Engineering
Virginia Polytechnic Institute and State University
215 Randolph Hall - Mail Code 0203
Blacksburg, VA 24061
(540) 231-7698

902 Broce Drive
Blacksburg, VA, 24060
(540) 961-5984
cengiz@akinli.org
<http://cengiz.akinli.org/>

Education

B.S. in Aerospace Engineering, Virginia Polytechnic Institute and State University (3.66 GPA), expected May 2006

B.S. in Mathematics with Computer Science Minor, Virginia Polytechnic Institute and State University (3.71 GPA), expected May 2006

Research Experience

May 2002 - Present Distributed Spacecraft Attitude Control System Simulator
Department of Aerospace and Ocean Engineering
Virginia Polytechnic Institute and State University
Research assistant in charge of onboard computer system selection and installation.

May 2003 - Present A Semi-Autonomous Distributed Spacecraft Docking Control Simulator
Department of Aerospace and Ocean Engineering
Virginia Polytechnic Institute and State University
Virginia Space Grant Undergraduate Researcher

Jan 2004 - Present A Wall Mounted Subsonic Wind Tunnel Test Apparatus
Department of Aerospace and Ocean Engineering
Virginia Polytechnic Institute and State University
Design and develop a an electronically actuated wind tunnel test platform for airfoil and wing models up to 2 meters in length.

Professional Experience

Sep 2003 - Present

College of Engineering Student Assistance Center
Office of Academic Affairs
College of Engineering
Virginia Polytechnic Institute and State University
Student Coordinator. Manage a staff of approximately 30 undergraduate tutors and oversee daily operations of the Student Assistance Center.

Sep 1994 - Present

Netmar, Inc. President. Founded the corporation and established the current website hosting operations. Ultimately responsible for all aspects of business operations, including technical administration of the 100 server network, multiple Internet uplink management, customer account handling, and extensive custom software development. Grew the company from a single server and approximately 30 initial customers to the current state of around 100 servers housing tens of thousands of websites serving more than 500 customers.

Sep 2002 - May 2003

College of Engineering Student Assistance Center
Office of Academic Affairs
College of Engineering
Virginia Polytechnic Institute and State University
Tutor. Assist students of the college with a variety of homework problems, assignments, and exam preparation.

Activities and Honors

Dean's List with Distinction, Fall 2001 - Spring 2003

Tau Beta Pi, Member-At-Large Initiated Dec 2002.

Service Chair Sep 2004 - Present. Coordinate multiple service projects each semester and lead most.

Publicity Chair Sep 2004 - Present. Raise awareness among the students of the College of Engineering of Tau Beta Pi's presence and mission in the college and professional communities.

Sigma Gamma Tau, Member-At-large, initiated Dec 2003.

The Great Hudson River Swim, Race participant. Swam the 2.8 mile competitive, open-water course down the Hudson River from the 79th Street Boat Basin to Pier 62 at 23rd Street Manhattan.

Skills

Computer Programming More than 20 years experience programming computers resulting in complete fluency in multiple languages beginning with BASIC and Pascal and ultimately evolving to multiple Unix shell scripting, C, object-oriented C++, HTML, PHP, and some Perl and Java under MS Windows and multiple Unix platforms with a heavy focus on Linux and Sun Solaris. Estimate an excess of 200,000 lines of code written.

Computer System Administration Strong skills and extensive experience administering Sun Solaris, and various distributions of Linux on computers ranging from single-user to 1,000+ user servers. Extensive experience troubleshooting system, software, and network issues. Thorough low-level knowledge and understanding of multiple protocols, including FTP, SMTP, HTTP, SSH, HTTPS, and BGP, among others.

Computer Hardware Extensive skills working with most standard PC hardware, as well as PC104 systems and external electronic actuator and sensor interfaces, including encoder and stepper motors, rate gyros, linear accelerometers, and various other electronic devices through onboard data acquisition hardware.

Digital Image Processing Experience and skill with low-level programming to facilitate high speed processing of real time digital image data, and conversion of that data to relative attitude data for spacecraft. Requires the combination of low-level hardware knowledge with advanced programming techniques and data structures such as graphs and general trees.

Interests

Music More than 20 years experience in Baroque, Classical, Popular, and Contemporary Christian music on piano, trumpet, and tenor and alto saxophone.

Cycling and Swimming Avid road bicyclist and open water swimmer.

Carpentry Experienced carpenter capable of major construction of patio decks and sidewalks.