CHRISTOPHER C. WILKINS

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OBJECTIVE	To apply my technical intuition and skills in a productive fashion in an aerospace position		
EDUCATION	by working with rocket propulsion and spaceflight Polytechnic University , Brooklyn, NY; Expected Graduation: May 2007 Masters of Science in Mechanical Engineering (started Fall 2005) Rensselaer Polytechnic Institute , Troy, NY; Graduated: May 2005 Bachelor of Science in Aeronautical/Mechanical Engineering G.P.A. 3.5/4.00 Dean's List all semesters		
EMPLOYMENT	 Research Assistant and Graduate Fellow, Polytechnic University (Fall 2005-Current Conduct research in satellite constellations and formation flying 		
	• Teach high school students Physics at public school in Brooklyn		
	Assigned product specifications for the engineering web site		
	Software Developer, G. E. Power Systems, Schenectady, NY (Summer 2003):		
	• Worked with Java and XML to create Help Wizards for Power Systems		
	software; networked Windows systems to a Linux server		
	Structural Engineer, Sikorsky Aircraft, Stratford, CT (Summer 2002):		
	• Developed custom physical repairs for field rotorcraft based on analysis, physical engineering practices, and fabrication techniques		
	• Performed Structural Analysis for S-76, Blackhawk, and various other rotorcraft developed by Sikorsky		
	• Used CATIA software to analyze structural components of airframe		
	• Created CAD models of various aircraft parts		
	Designed and constructed a micro-gravity fluid-flow experiment for the KC-135		
	in NASA's Reduced Gravity Student Flight Opportunities Program		
	 Implemented experimental design, construction, and preparation in an apparatus that tested for the Kelvin Force on a Paramagnetic Fluid in Microgravity from theory to flight testing in the confines of one summer Proved through the successful experiment that the Kelvin force acts as the 		
	dominant body force on paramagnetic fluids in a microgravity environment Researcher, Rensselaer Polytechnic Institute (Spring 2001)		
	• Used bioscience software with materials science lab samples to investigate		
RELATED	possibilit	ies for the software/hardware combin	ation in a materials field
COURSEWORK	K Project: Hybrid Rocket Propulsion Capstone Design		
	 Personally started a new course at RPI giving students hands-on rocket propulsion experience 		
	 Developed a 'Morphing Rocket' to fly a mile with a hybrid motor and then morph into a flying configuration for controlled gliding Took on managerial, design, construction, and analysis responsibilities to launch the rocket, providing proof-of-concept for morphing rocket design Previous: CAD, Spaceflight Mechanics, Aerospace Structures, Propulsion 		
		Systems, Aerodynamics, Fluid Dyn Canstone, Linear Systems, Signals	amics Lab, Rocket Design
	Current:	Transfer Phenomena. Sensor-Based	l Robotics. Stress Analysis
COMPUTER			
SKILLS	MATLAB and Simulink, Maple, Solidworks, CATIA V4/V5, MS Office, C		
LANCHACE	Programming Language, UNIX		
SKILLS	Studied one year at the Otto-Friedrich Universität Bamberg in Bamberg Germany fine		
	tuning my German skills and expanding my exposure to diverse cultures. Also have a		
	conversational level of French.		
INTERESTS	Teaching rhythm tap dance, performing modern dance and ballet, skiing, traveling, practicing French, and practicing my German		