152 Charles St. #1 Cambridge, MA 02141

## - SUMMARY -

MIT-educated physicist and independent programmer looking for interesting projects in science and technology.

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EDUCATION		
<u>Massachusetts Institute of Technology</u> <b>Ph.D. program in physics</b> , degree not completed (GP.	Cambridge, MA	9/1996-1/2005
<ul> <li>Karl Taylor Compton Fellowship, National Science Fo</li> <li>Studied under <u>Dr. Edmund Bertschinger</u> on large-scal gravitational lensing, and radiative transfer, and 1 magnetohydrodynamics, and accretion-disk phys</li> <li>President of the <u>MIT Science Fiction Society</u> (2002-200 world's largest library of science fiction and fantas</li> </ul>	oundation Fellowship. e astrophysical simulations, structure for ater under <u>Dr. Bruno Coppi</u> on plasma a ics. Work published in the <i>Astrophysical</i> 4): oversaw a staff of ~30 volunteer libra	strophysics, Journal.
<b>Classroom instructor</b> (2000-2001): created and gave re individually, and supervised laboratory experime	gular lectures in freshman physics, tutor	red students
<ul> <li><u>Vanderbilt University</u></li> <li><b>B.S. degrees in physics and mathematics</b>, minor in contract Harold Stirling Vanderbilt Honor Scholarship, McMir Graduated <i>summa cum laude</i>. Ranked 2nd in class of 8</li> </ul>	n Ĥonors Scholarship in the Natural Sci	9/1992-5/1996 ences.
EXPERIENCE		
<u>insani</u> <b>Co-founder and chief technical officer</b> of a non-profi English market. Reverse-engineered binary data form with new content. Performed script editing, graphics	ats and executable code, and created too	ls to patch games
<u>DaggerWare</u> Sole proprietor and lead programmer of an independ for Palm handheld devices. Wrote the award-winning users. Invited speaker at the 1998 PalmSource Develo	g utility program HackMaster, with an es	
<u>Massachusetts Institute of Technology Media Laboratory</u> <b>Research technician</b> , continuing a multi-year volunted group. Developed a custom low-power video driver s kernel patches, FPGA logic code, and a mixed-signal c system including custom dual keyboard drivers and F	solution for a heads-up display, includin circuit board. Constructed a MIThril wea	g integrated Linux
LandWare, Inc. Contract programmer: developed the driver for the <u>G</u> Later expanded the driver to include Hebrew and Japa	<i>Paramus, NJ</i> <u>oType!</u> hardware add-on keyboard for F anese input systems. Product is still beir	5/1998-9/2002 Palm devices. ng sold.
<u>Textware Solutions</u> Contract programmer: developed an on-screen-input optimized letter layout. Product generated revenue for	<i>Burlington, MA</i> system extension for Palm devices using or 6 years.	3/1998-6/1999 the Fitaly stylus-
<i>Fermi National Accelerator Laboratory</i> <b>Summer research fellow</b> : simulated, tested, construct detectors as part of an upgrade to the Tevatron particl		6/1995-8/1995 cintillator
Vanderbilt University Scientific programmer: optimized existing work on the resulting in a software speedup of 8000 times, and devidata. Later expanded to a senior thesis under <u>Dr. Gler</u>	veloped a custom 3D visualization engin	
Oak Ridge National Laboratory Summer research fellow: designed and constructed a chamber particle detector. Performed materials testin		
—— SKILLS ————		
<ul> <li>Programming in: C/C++, Perl, Python, Mathematica, PHF</li> <li>Application development and system administration for microcontrollers, BeOS.</li> <li>Circuit design and fabrication: both analog and digital, Ed</li> <li>Desktop and web publishing: HTML, CSS, LaTeX, Photos</li> </ul>	: Linux (both desktop and embedded), P agle CAD, VHDL, AHDL.	almOS, MacOS,
office applications. Writing and editing: scientific publications, presentations	*	

Writing and editing: scientific publications, presentations, technical documentation, journalism, and fiction.