

# Terry Smith

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Objective	Challenging work with expert scientists and technicians. A position that takes advantage of my multidisciplinary skills and proficiencies.		
Summary of qualifications	<ul style="list-style-type: none"><li>▪ Currently working for Draper Laboratory in the Embedded Software division. Experience with all phases of project development, from requirements specification to field testing and installation</li><li>▪ Lecturer for Aero/Astro Engineering at MIT, teaching embedded and real-time systems</li><li>▪ University coursework in Electrical and Computer Engineering, Computer Science, Languages, International Relations.</li><li>▪ Involved in computer programming and hobbyist electronics since elementary school.</li></ul>		
Security clearance	TS/SCI with full scope polygraph		
Recent Work Experience	<b>2000 – Present</b>	<b>Draper Laboratory</b>	<b>Cambridge, MA</b>
	Embedded Systems Engineer		
	<ul style="list-style-type: none"><li>▪ Signal processing and conditioning of communications signals on a TMS SAM-450 and Sun Ultra running Solaris. Cross-platform data collection and analysis using Matlab and custom data gathering tools.</li><li>▪ Implementation of inertial and GPS navigation algorithms on PowerPC and Xilinx platforms using Wind River Tornado environment</li><li>▪ Development of navigation system interface software between custom processor board and COTS GPS card</li></ul>		
	<b>Spring 2001, 2002</b>	<b>MIT Aero/Astro Engineering</b>	<b>Cambridge, MA</b>
	Assistant Instructor		
	<ul style="list-style-type: none"><li>▪ Assisted with curriculum development in an effort to add a component of real time and embedded systems to a programming/software engineering course for MIT Aero/Astro undergrads (MIT 16.070)</li><li>▪ Prepared and taught ~20 lectures on real time systems, embedded software development, and C programming to 160 students over 2 semesters. Developed IR beacon electronics to support the final project.</li></ul>		
	<b>1997 – 2000</b>	<b>TRW</b>	<b>Columbia, MD</b>
	Systems Engineer/Software Developer		
	<ul style="list-style-type: none"><li>▪ Development of real time and time-sensitive signal processing applications using Wind River Vx-Works and Sun Ultra/Solaris platforms</li><li>▪ Installation and field support of mission-critical systems in remote areas</li><li>▪ Optimization and modification of software vocoder systems</li><li>▪ Internal research and development</li><li>▪ Software development in C, C++, Java. System integration using Xilinx FPGAs, COTS and GOTS equipment</li></ul>		

- Education
- Massachusetts Institute of Technology**  
Graduate Coursework
- MAS-967 Sensor Technologies for Interactive Environments
- University of Maryland, Baltimore County**  
BS – Computer Science w/ International Relations minor
- Alumni Association Outstanding Undergraduate Award and Grant
  - Golden Key National Honor Society
  - Second undergraduate teaching assistant in university history
- Florida Institute of Technology**  
Electrical Engineering and Computer Science Coursework
- Languages
- C, C++, Perl, Matlab, VHDL, Java, Assembler, Pascal, FORTRAN\_77, BASIC
  - English (native), French, some German
- Other Work Experience
- University of Maryland, Baltimore, MD**  
Teaching Assistant / Tutor
- Created and presented two one-hour discussion sections per week for Computer Science I and II
  - Developed a web-assisted lecture on symbolic debuggers and debugging techniques, which was presented to several 350-person lecture classes
  - Substituted for professors' lectures as needed
  - Assisted Computer Science and Information Systems students with coursework including Assembly Language, Data Structures, Principles of Programming Languages and Intro to Object Oriented Programming
- UMMS Hospital, Baltimore, MD**  
Telecommunications Technician Trainee
- Trained in telephone electronics and TCP/IP networking
- Dept. of Anesthesiology, U of MD, Baltimore, MD**  
Research Assistant
- Maintained and updated a PC-based data acquisition system that interfaced with medical monitoring equipment in an ER and superimposed real-time data onto a videotape of the surgical procedures. Code was in C and Assembler
- Other Activities
- UMBC Honors Program, 96-98
  - Bartender, PJs of Ellicott City, 96-97
  - Professional Ski Instructor, Berchtesgaden, Germany, 95-96
  - Migrant Farm Worker, Avignon, France, 1994
  - College TV Station Manager, Florida Tech, 90-92