

Katherine A. Sniffen

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- OBJECTIVE** A full-time engineering position in robotics.
- EXPERIENCE** **Raytheon Corporation**, Sudbury, MA
July 2005 to Present
Lead mechanical engineer for a small team integrating COTS electronics into the Navy's next-generation combat ship system. Responsible for requirements flowdown, mechanical design, technical documentation package, manufacturing documentation package and design reviews with Navy customers. Designed and executed a risk mitigation and testing plan to allow the use of COTS equipment in a military shock and vibration environment.
- MIT Space Systems Lab**, Cambridge, MA
Senior Design Project—February 2004 to May 2005
Design and prototyping of a low-cost, compact, wireless, autonomous modular spacecraft system.
- The MITRE Corporation**, Bedford, MA
Internship Summer 2004
Intern developing engineering tools for the GPS group. Built visualization tools in Matlab for satellite coverage, wrote information-sharing and workflow tools in Python.
- TERC**, Cambridge, MA
Full Time 2001-2003, Part Time 2003-2004
Information Services Help Desk Technician, Mac & Windows
- Aerospace Controls Lab at MIT**, Cambridge, MA
June 2003 to September 2003
Research assistant investigating formation motion of space, air, and ground systems.
- TOOLS** **Computer:** Engineering Tools (*ProEngineer, Matlab, Solidworks, Omax*), Office Tools (*Lotus Notes, Microsoft Office*). Familiar with DOORS requirement-management tool.
Machining Tools: Waterjet, drill press, CNC mill and lathe.
- SKILLS** **Mechanical Engineering:** Design of small assemblies, design and integration of larger assemblies, geometric dimensioning and tolerancing, using commercial-grade parts in military environments.
Electrical Engineering & Computer Science: Control system design, digital design with FPGA, CMOS and TTL chips, sensor systems, programming.
Communication: Technical writing, large event coordination and planning, team leadership, proposal writing.
- EDUCATION** **Massachusetts Institute of Technology**, Cambridge, MA
SB in Course XVI-2 (Aeronautics and Astronautics with Information Technology), June 2005
- INTERESTS** History, guitar, singing, writing, robotics, candy-making, science fiction, ice hockey, photography, journalism, theatre. Notary Public for the Commonwealth of Massachusetts
- CITIZENSHIP** U.S. Citizen with U.S. Secret Clearance