Marc A. Millstone

Permanent Contact Information: 165 Sherwood Dr. Bridgeport WV 26330 304.842.5181

University Contact Information: Harrison College House 3910 Irving St. Philadelphia PA 19104 215.704.7479 mmillsto@grasp.upenn.edu

OBJECTIVE

To utilize my mathematical knowledge in an exciting and challenging research environment, with preference to the fields of robotics, vision, control and applied mathematics

- EDUCATION \diamond University of Pennsylvania (2000-2004), Philadelphia, PA
 - · BSE: Mathematics, Computer Science and Engineering
 - · Minor: Mechanical Engineering
 - · GPA: 3.48/4.0

Research AND WORK EXPERIENCE

- ♦ Research, General Robotics, Automation, Sensing and Perception Lab (2001-present) Computer and Information Science Department, University of Pennsylvania
 - · Performing independent research with computational geometry techniques for Simultaneous Localization and Mapping (SLAM)
 - · Working with the BioComputation Group in integrating System Biological Markup Language with Charon, a programming language for simulating hybrid systems
 - · Performing research to realistically simulate virtual, non-invasive surgeries and cell manipulation with the aid of a haptic control unit.
- ♦ Teaching Assistant, Engineering and Applied Science(EAS) 101 (Fall 2002)
 - · Led lectures on CAD/CAM, graded papers and reports
- ♦ System Analyst, Wharton Research Data Services (WRDS) (2000-2001) Wharton School of Business, University of Pennsylvania
 - · Optimized and enhanced current Wharton Research and Data Services (WRDS) system
- ♦ Junior System Engineer, AverStar, Inc.(1999-2000) NASA IV&V Facility, Fairmont, WV
 - · Aided in performing verification and validation for the International Space Station
 - · Gained insight into engineering protocols and conventions, while learning the necessary skills to work in a dynamic team environment

SKILLS

♦ C/C++, Matlab, Maple, Java, Perl, LaTeX

Interests

- ♦ President of the Penn Cycling Team (2001-present), avid road cyclist
- ♦ Editor of PennScience, a multidisciplinary, undergraduate research journal
- ♦ Classical and Jazz saxophonist
- ♦ Member of the Science and Technology Wing, a living and learning programming at Penn.

Classes

- ♦ Relevant class experience through Spring 2003
 - · Math and Computer Science: Advanced Linear Algebra, Complex and Fourier Analysis, Differential Equations, Analysis, Abstract Algebra, Theory of Computation, Algorithms, Operating Systems, Computational Geometry
 - · Robotics: Special Topics in Robotics and Animation, Robotics and Machine Perception, Linear Systems Theory, Real-time Image Processing for Robotic Systems