Luke P. Sosnowski

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OBJECTIVE Challenging position in the field of mechanical engineering, with primary focus in electromechanical systems.

EDUCATION **Massachusetts Institute of Technology** - *Cambridge, MA*
Candidate for M.S. in Mechanical Engineering, June 2000. Rosenblith Fellow. GPA: 4.3/5.0

Relevant coursework:

- Systems Modeling and Control
- Design and Manufacturing
- Fluid Dynamics
- Measurement and Instrumentation
- Thermodynamics and Heat Transfer
- Mechatronics
- Mechanics and Materials
- Programming

Massachusetts Institute of Technology - *Cambridge, MA*
B.S. in Mechanical Engineering with concentration in Economics in June 1998. GPA: 4.7 / 5.0
Thesis Title: Piezo Actuated Nano-Stepping Micro-Robot Chassis Design and Control

SKILLS *Engineering:* Proficient in Pro/ENGINEER, familiar with AUTOCAD, SolidWorks, MasterCam. Extensive hands-on experience with CNC milling and turning, and EDM Machining(Wire and Sinker). Familiar with basic real-time control systems and digital electronics.
Computer: Proficient in MATLAB, Maple, HP-VEE. Familiar with C, Perl, Visual Basic, NT and Unix operating systems
Other: Fluent in English, Polish, conversant in German, basic understanding of Spanish.

EXPERIENCE **MIT Bioinstrumentation Laboratory** - *Cambridge, MA*
Research Assistant. Designed and built apparatus for small-feature extrusion in plastics. Assisted in perfecting methods for EDM micro-machining of silicon. *(Fall 1998 – present)*

Hewlett Packard Corporation, Internet Applications Systems Laboratory - *Roseville, CA*
Engineering Intern. Designed and implemented an automated system for a flow test chamber used in thermal testing of computer components. The system cut component testing time by 80-90% and increased measurement accuracy by an order of magnitude. The project involved sensor selection, integration of hardware components, and extensive HP VEE programming. *(Summer 1998)*

Z Development, Inc. - *Cambridge, MA*
Project Engineer. Participated in redesign and building of a device for the biomedical research market. Duties included part design, component selection and purchasing, product assembly and testing. *(November 1997 - May 1998)*

Intelligent Automation Systems, Inc. - *Cambridge, MA*
Engineering Intern. Performed design, assembly, and debugging of complex industrial automation systems. *(Summer 1997)*

MIT Newman Biomechanics Laboratory - *Cambridge, MA*
Designed and manufactured a miniature 2-DOF manipulandum for use in medical research. Project won the Louis DeFlorez Prize for Innovation in Mechanical Design. Evaluation of completed prototypes currently in progress at Massachusetts General Hospital. Work included design specification, PRO/Eng CAD, CNC manufacture, and control system layout. *(Summer 1996 – Spring 1997)*

ACTIVITIES Outing Club, President (3/95 – 3/97), VP (3/97-3/98), Board Member (3/98 – present), Ashdown House Darkroom Manager (1/99 – present), Pi Tau Sigma Mechanical Engineering Honor Society (VP), Member of Tau Beta Pi, Polish Club VP(8/96 – 8/97), MIT Crew (9/95 – 5/96), MIT Cross Country (9/94 - 12/94).

INTERESTS Rock climbing, photography, mountaineering, literature, running, ice skating, sailing.

Citizenship – U.S.