

# Lawrence Tai

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## CAMPUS PERMANENT

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## OBJECTIVE

To obtain an electrical engineering position in an environment conducive to learning innovative concepts and techniques in the field and in general, and where my skills will be a significant contribution towards the goals of the organization

## EDUCATION

Present **University at Buffalo**  
Buffalo, NY Candidate for Masters of Science in Electrical Engineering  
Anticipated graduation: May 2005

May 2004 **University of Illinois at Urbana-Champaign**  
Champaign, IL Bachelor of Science in Electrical Engineering

## EXPERIENCE

Fall 2003 **University of Illinois at Urbana-Champaign**  
Champaign, IL Academic Research Project: Rare Earth Doped Microspheres  
- Researched and developed new applications for ZBLAN fibers  
- Independently worked to design and develop lasing microspheres  
- Prepared and presented technical reports and documentation

May 2003-2004 **Laboratory of Optical Physics and Engineering**  
Champaign, IL Undergraduate Research Assistant  
- Innovated new venues for fiber optics via use of ZBLAN fibers  
- Repaired and maintained laboratory equipment and supplies  
- Collected and organized data for various optic experiments

Summer 2001 **NexPress Solutions, Inc.**  
Rochester, NY Assistant Engineer  
- Optimized digital printing conditions  
- Designed and executed experiments correlated with optical fusion  
- Established safeguards for a high speed digital printing press  
- Measured color consistency and ensured digital printing quality

## TECHNICAL

Computer Skills  
- Operating UNIX  
- Designing in VHDL  
- Utilizing Matlab  
- Coding in C and Java  
- Programming in Mathematica  
- Applying Microsoft Office Suite

Relevant Courses  
- Solid State Electronic Devices  
- Electronic Circuits and Laboratory  
- Optical Electronics  
- Photonic Devices  
- Independent Research  
- Theory and Fabrication of Integrated Circuit Devices  
- Introduction to Plasma Processing  
- Digital Signal Processing  
- Lines, Fields, and Waves  
- Biomedical Instrumentation

## REFERENCES

Available upon request.