

DAVID TAGATAC

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OBJECTIVE

Materials Science Ph.D.

EDUCATION

CORNELL UNIVERSITY, College of Engineering, Ithaca, NY
Candidate for Bachelor of Science, May 2006
Major: Applied & Engineering Physics
GPA: 3.4

AWARDS

Cornell Presidential Research Scholar (CPRS) || Bausch & Lomb Science Award

TECHNICAL EXPERIENCE

Engineering Co-op

Summer 2005

Ballast Business Unit, Lutron Electronics Co., Inc., Coopersburg, PA

- Measured cathode fall of fluorescent lamp filaments to determine the optimal filament heating voltage.
- Drove the project to modify, qualify, specify, and document a fluorescent ballast IR transmitter.
- Assisted in the qualification testing and analysis of new FETs to be used in certain ballasts.

Electrical Engineering Co-op

Fall 2004

Wallbox Business Unit, Lutron Electronics Co., Inc., Coopersburg, PA

- Provided existing product support and quality improvement for single room lighting controls – for example: found root cause for incompatibilities with electronic low voltage transformers, found and tested alternatives to troublesome thermal cutouts.
- Conducted various standards qualification tests / in-house tests.
- Participated in the design review process for multiple products.

Undergraduate Researcher – CPRS (Mentor: Prof. David Muller)

Fall 2003/Spring 2004

Department of Applied and Engineering Physics, Cornell University, Ithaca, NY

- Examined copper wafers in a scanning electron microscope in an attempt to correlate certain crystal orientations with failure sites.
- Used Electron Backscatter Detection (EBSD) to determine crystal orientation.

Governor's School

July 2001

College of Engineering, Rutgers University, East Brunswick, NJ

- Roughly modeled a plane with a group using CAD.
- Printed a scaled resin model from that file using a stereolithography machine.

NON-TECH EXPERIENCE

Movie Theater Usher / Concession Sales

Summer 2001, 2003

Freehold Metroplex, Loews Cineplex Entertainment, Freehold, NJ

Refunds Cashier

Summer 2002, 2003

Sam's Club, Walmart, Freehold, NJ

SKILLS

- Scanning Electron Microscope
- LeCroy oscilloscopes, Thermocouples & Data loggers
- MS Excel, Word, PowerPoint
- Matlab, LabVIEW

ACTIVITIES

- Intercollegiate Men's Track Team (400 meter dash) 2003-2004
- Cornell Ski and Snowboard Club