**Lior Ben-Yehoshua**
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## Education

**PhD in Electrical Engineering** **2014 - Present**
***Purdue University,*** West Lafayette, IN

**B.S. Degree in Electrical Engineering** **2010 - 2014**
***Purdue University***, West Lafayette, IN
GPA: 3.88

**Academic Honors Diploma**
**Indiana Academy for Science, Mathematics, and Humanities,** Muncie, IN **2008 - 2010**
GPA: 4.3

## Experience

**Graduate Researcher**, Ziaie Biomedical Microdevices Laboratory, *Birck Nanotechnology Center* **2014 - Present**
Designed and fabricated various biomedical micro-devices and MEMS using photolithography, soft-lithography, layered microfabrication via soft polymers, and other techniques. Specialized in ultrasonic acoustic power, microfluidics, and laser-assisted microfabrication. https://engineering.purdue.edu/ZBML/

**Research Assistant**, Ziaie Biomedical Microdeviecs Laboratory, *Birck Nanotechnology Center* **2012 - 2014**
Fabricated PDMS based vacuum microfluidics devices for lab-on-a-chip proposals. Fabricated and tested flexible oxygen generation and pH sensing microdevice platforms for BioFLEX smar wound dressing project.

**FIRST Robotics Mentor**, Team 4272, *Lafayette, IN* **2012 - Present**
Assisted high school students with electronics, software, machining, and mechanical design to compete in the FIRST robotics competition.

**Electrochemical Sensing Project Leader**, Chemical Sensing Initiative, *Purdue University* **2011 - 2013**
Designed and fabricated an electrochemical sensing PCB platform using EagleCAD and Spice.

**FIRST Robotics Electrical & Programming Director**, Team 1501, *Huntington, IN* **2006 - 2010**
Worked with electronics and software design to compete in the FIRST robotics competition. Competed in the national FRC championship.

## Skills

Extensive knowledge of PCB and embedded systems design.
Proficient CAD experience in Altium Designer, EagleCAD, OrCAD/Spice, AutoCAD, and Autodesk Inventor.
Programming in C/C++, LabVIEW, Matlab, Assembly, and Abel.
Experience in rapid prototyping, design for manufacture, PCB routing, manual machining, and SMT soldering.
Extensive research in MEMS, lithography, ultrasonic acoustics, and biomedical microdevices.

## Memberships and Affiliations

Purdue FIRST Programs
Nanotechnology Student Advisor Council
Eta Kappa Nu chapter member
Volunteer Hebrew teacher and tutor
Purdue Latin and Ballroom Dance Team

## Achievements and Awards

Charles C. Chapelle Fellowship recipient, Fall 2014 – Summer 2015
Purdue University Dean's List, Fall 2010 – Spring 2014
Purdue University Semester Honors, Fall 2010 – Spring 2013
Purdue University Trustees Scholarship recipient, Fall 2010 – Spring 2014
Dean's Engineering Merit Scholarship recipient, Fall 2010 – Spring 2014
Eli Shay Electrical Engineering Scholarship recipient, Fall 2012 - Spring 2013