

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 Microdevices 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