Leonard Kapiloff

(301)-956-5410, likap@umich.edu
610 South Forest Avenue, Ann Arbor MI, 48104

EDUCATION

University of Michigan, Ann Arbor September 2014-May 2018

- Bachelor of Science in Engineering, Electrical Engineering
- GPA: 3.81/4.00
- University of Michigan Engineering Honors Program
- Energy Science and Policy Minor
- Coursework: Power System Analysis and Design, Power Electronics

EXPERIENCE

Dominion Resources Glen Allen, VA

System Operations Center Intern May 2016 -August 2016

- Learned fundamentals of control room contingency analysis to ensure blackout prevention
- Developed a program using for automated notification of any power fluctuations to key account customers including the Pentagon and other federal agencies using Visual Basic Software
- Built a transient stability analysis tool using Javascript and HTML software to educate electric grid system operators
- Researched methods for integrating solar forecasting into electric grid reliability studies

Camp Tel Yehudah Barryville, NY

Counselor June 2015- August 2015

- Collaborated with co-counselors to plan recreational and educational activities to engage campers
- Conferred with co-counselors to facilitate recreational activities to foster camper bonding

RESEARCH EXPERIENCE

University of Michigan, Bio-Plasmonics Lab Ann Arbor, MI

Research Assistant September 2015- April 2016

- Simulated solar energy harvesting nano-structures with COMSOL software to determine optimal nano-structure light absorption
- Constructed solar energy harvesting nano-structures using nano-fabriaction techniques to build efficient solar cells

Naval Surface Warfare Center Carderock Division Bethesda, MD

Corrosion Research Intern June 2014- August 2014

- Determined feasibility of cold spray crack repair for use on naval ships
- Assisted Welding and Processing group with corrosion testing to improve research efficiency
- Facilitated electrochemical experiments on navy equipment to prevent corrosion of navy weaponry

Israel Institute of Technology Haifa, Israel

Battery Research Intern July 2013 -August 2013

- Utilized glove boxes to build lithium-air batteries for testing in battery performance analysis experiments
- Conducted electrochemical experiments to verify the operational temperature range of lithium-air batteries
- Analyzed voltage and current data of lithium-air batteries to determine feasibility for automotive use

ACTIVITIES AND AWARDS

IEEE, Member January 2016- Present
Michigan Club Wrestling, Member October 2014-Present
IEEE Power and Energy Society Scholar October 2016- Present

SKILLS

Computer Programming: Matlab, C++, Visual Basic, CSS, Javascript
Technical Software: COMSOL, Autocad, Rhino
Language: Fluent in Hebrew