

Daniel Lukach

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Education

SUNY Stony Brook, Stony Brook, NY

Major: Electrical Engineering

Anticipated Graduation: May 2024 with Doctor of Philosophy

SUNY Stony Brook, Stony Brook, NY

Major: Electrical Engineering

Graduation: May 2018 with Bachelor in Engineering

Relevant coursework: Computer Science 1, Electrical Circuit Analysis 1, Digital Systems, Design, Computer Techniques for Electronic Design I & II, Electronics Laboratory, Deterministic Signals and Systems, Electronics, Applications of Op Amps, Analog Integrated Circuits, Digital Design With VHDL, Embedded Systems, DSP Lab

Summary of Skills:

Software: Cadsoft Eagle, LTSPICE, PSPICE (OrCAD), Atmel Assembler, C, C#, Java, C++, VHDL, Windows 7, Cura, AutoCAD, AutoCAD Inventor, Synplify, ISPLever

Hardware: Power Supply Design, Embedded Design with Atmel AVR, RF Design, Instrumentation Design, Rapid Prototyping, Circuit Testing and Design, Arduino, Raspberry Pi, SPI, I2C, Reverse Engineering, Circuit Troubleshooting, 3D Printing, PCB Milling, Audio Electronics, FPGA Design

Related Experience

- Stony Brook University, Stony Brook, NY, *Researcher*, Summer 2015 – Present
 - Powerline Communications for SmartGrid Metering
 - Transformer Design and Test
 - Power Supply Design and Verification
 - Electronic Instrumentation Design
 - Rapid Prototyping and Design
 - Board Design with Cadsoft Eagle
- Hack@CEWIT, Stony Brook, NY, *Mentor*, February 2017, February 2018
 - Hosted Electronics Workshops
 - Event Planning
 - Student Aid & Mentoring
- Bren-Tronics Inc., Commack, NY, *Electrical Engineering Intern*, Summer 2016
 - Designed 125W dual output USB-C Charger
 - Wrote ARM Firmware for Solar Inverter Project
 - Designed C# Battery Test Result(.txt) to Excel with graph plotting application
 - Board Design with Cadsoft Eagle
- Northrop Grumman High School Involvement Program, Bethpage, NY, Spring 2013
 - Collaborated on Group Projects
- Citibank, Happaugue, NY, *Global ATM Support Intern*, Summer 2013
 - Tested and Evaluated ATM software
 - Learned ATM design, architecture, and support
- High school Computer Science Project, 2012-2013
 - Designed software for school administrator
 - Met with customer and evaluated software based on customer's needs

Extracurricular Activities & Achievements

- IEEE Stony Brook –President (2016), Project Manager (2015-2016)
- Future Engineers – Vice President (2012-2014)
- National Technical Honor Society(2012-2014)
- Computer Science Club (2011-2014)
- FCC General Amateur Radio License (W2DML)
- NYIT Engineering Fair 2012- Innovation Award, 2013 – First Place, 2013 – Engineering Award
- MIT Inventeams (Summer 2013)
- Commack High School – Excellence in Technology(2014)