
BRANDON LESHCHINSKIY

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Honors electrical engineering student seeking full-time employment with a fast-paced, innovative, technology company. Offering hands-on experience with hardware, software, and embedded systems.

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Education	The Pennsylvania State University, University Park, PA Schreyer Honors College, 3.73/4.00 GPA B.S. in Electrical Engineering Minor in Mathematics	May 2016
Professional Experience	<i>Electronic Test Development Intern</i> , GE Transportation <ul style="list-style-type: none">Created hardware-in-the-loop simulation using Atmega328p microcontroller to test Off-Highway Vehicle motor controllersDesigned wire verification test for locomotive auxiliary invertersUpdated frequency generation card to accommodate new controls <i>Co-Founder</i> , Michelangelo Robotic Endoscope Start-up <ul style="list-style-type: none">Developed path-following algorithm for snake-like surgical deviceCreated MATLAB GUI to interface between users and hardwareModeled and simulated robot's movement using Simulink <i>Management Intern</i> , Verizon Communications <ul style="list-style-type: none">Automated data acquisition with Excel macros, saving \$80K/yearCreated flowcharts, presentations, and training materials	May 2015 – July 2015 January 2015–Present May 2014 – July 2014
Research	<i>Sudoku Radar Research Assistant</i> , Radar and Communications Lab <ul style="list-style-type: none">Optimized SNR and interference of radar waveforms using MATLABSubmitted for publication to <i>IEEE Letters</i>: “Radar ambiguity functions and resolution characteristics of Sudoku-based waveforms” by Narayanan, Bufler, and Leshchinskiy	January 2015–Present
Leadership	<i>Engineering Ambassador</i> , PSU College of Engineering <ul style="list-style-type: none">Lead outreach programs at public schools around PAGive weekly tours and recruit students for PSU Engineering <i>Marketing Director</i> , Apparatus X Disaster Relief Vehicle <ul style="list-style-type: none">Managed crowd-funding campaign that exceeded \$15,000Directed outreach to media; worked with Wired, MSNBC, etc. <i>Math Tutor</i> , Penn State Learning <ul style="list-style-type: none">Led exam review sessions w/ 100+ students in attendanceAssisted individuals in learning concepts from calculus I, II <i>Founder</i> , PSU Absurdity <ul style="list-style-type: none">Recruited members, promoted club, led meetingsPlanned and performed public, spontaneous entertainment	April 2014–Present March 2014 – January 2015 August 2013 – May 2015 April 2013 – May 2014
Technical Skills and Languages	Software: <ul style="list-style-type: none">Proficient with MATLAB, VBA, SPICE, LabVIEW (CLAD certified)Basic knowledge of Java, C++, C, Python Hardware: <ul style="list-style-type: none">Proficient with AVR, ARM, PIC microcontrollersExperienced with oscilloscopes, function generators, soldering Languages: <ul style="list-style-type: none">Proficient in Spanish, Russian; basic knowledge of German	
