

Brian Westervelt Jr.

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EDUCATION

Rowan University	Bachelor of Science	August 2014	May 2018
Electrical and Computer Engineering major		Glassboro, NJ	
Mathematics minor, Thomas N. Bantivoglio Honors Concentration		GPA: 3.939 (out of 4.0)	

LAB EXPERIENCE

Engineering Clinic Courses

- ~ Simulated a 3D car in software, which autonomously navigated a digital course
- ~ Converted a ShopVac into a BucketVac which could fit any generic 5 gal. bucket
- ~ Utilized parametric design to produce an optimized wave energy converter unit

Computer Architecture

- ~ Created a processor from the ground up using Verilog HDL (Quartus IDE)
- ~ Utilized Scrum development method

Electronics

- ~ Studied semiconductor-based microelectronics, including transistor amplifiers and logic circuits

DESIGN PROJECTS

Sumo Wrestling Robot (Fall 2015)

- ~ Implemented on an Arduino
- ~ Employed ultrasonic and IR sensors for better control structure

Coin Counting Machine (Fall 2014)

- ~ Executed on an Altera DE0 FPGA
- ~ Utilized slot-type IR sensors to read coins and 7-segment displays to display results

AFFILIATIONS

Institute of Electrical and Electronics Engineers	September 2014	Present
~ Judged the SeaPerch underwater robotics competition (Spring 2015)		
~ Participated in the 2nd annual sumo robotics competition (Fall 2015)		

Honors Jazz Band

October 2014 **Present**

- ~ Play guitar and trumpet
- ~ Arrange sheet music

Honors Table Tennis Group

October 2015 **Present**

- ~ Founded group
- ~ Schedule events
- ~ Lead meetings
- ~ Perform other administrative tasks

EMPLOYMENT

Fredon Twp. Elementary School	Summer Custodian	July 2010	Present
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- ~ Work in a small team
- ~ Clean furniture and wax floors
- ~ Perform maintenance on computers
- ~ Install software and assemble hardware

No Vertebrae Band Guitarist, Singer, and Manager

July 2010 **August 2015**

- ~ Lead a group of 7 members
- ~ Communicated with venues
- ~ Wrote and recorded music
- ~ Managed social media presence