

Brian Westervelt Jr.

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EDUCATION

Rowan University **Bachelor of Science**
Electrical and Computer Engineering major
Mathematics minor, Thomas N. Bantivoglio Honors Concentration

August 2014 **May 2018**
Glassboro, NJ
GPA: 3.923 (out of 4.0)

EMPLOYMENT

Inductotherm Corp. **Intern** **May 2016** **Present**

~Develop and maintain software projects
~Manage SQL databases

~Add features to existing projects
~Created a web-based Android Application

Rowan University Civil Engineering Dept. **Web Developer** **Feb 2017** **Present**

~Maintain and update website

~Develop new content

Fredon Twp. Elementary School **Summer Custodian** **July 2010** **August 2015**

~Worked in a small team
~Performed maintenance on computers

~Cleaned furniture and waxed floors
~Installed software and assembled hardware

No Vertebrae **Band Guitarist, Singer, and Manager** **July 2010** **Present**

~Lead a group of 7 members
~Write and record music

~Communicate with venues
~Manage social media presence

LAB EXPERIENCE

Engineering Clinic Courses

~Converted a ShopVac into a BucketVac which could fit any generic 5 gallon 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) and Block Diagrams for abstraction
~Utilized Scrum development method

DESIGN PROJECTS

Mini Electronic Piano (2016)

~Implemented on MSP430
~Created keyboard with thirteen pushbuttons
~Generated audio with onboard speaker and headphone jack

Coin Counting Machine (2014)

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

Smartwatch Development

~Implemented on Pebble hardware platforms
~Applications display time or perform simple functions

AFFILIATIONS

Institute of Electrical and Electronics Engineers **September 2014** **Present**

~Ethics Competition Chair (Student Activities Conference, 2017)
~Web Development Committee member (December 2016 — Present)
~Participated in the 2nd annual sumo robotics competition (Fall 2015)

Tau Beta Pi Engineering Honor Society **October 2016** **Present**

~Student Member

Honors Jazz Band **October 2014** **Present**

~Play guitar and trumpet

~Arrange sheet music

Honors Table Tennis Group **October 2015** **Present**

~Founded group
~Lead meetings

~Schedule events
~Perform other administrative tasks