

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

~Add features to existing projects

~Manage SQL databases

~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

~Cleaned furniture and waxed floors

~Performed maintenance on computers

~Installed software and assembled hardware

No Vertebrae **Band Guitarist, Singer, and Manager**

July 2010 **Present**

~Lead a group of 7 members

~Communicate with venues

~Write and record music

~Manage social media presence

LAB EXPERIENCE

Engineering Clinic Courses

Computer Architecture

~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

~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)

Coin Counting Machine (2014)

Smartwatch Development

~Implemented on MSP430

~Created keyboard with thirteen
pushbuttons

~Generated audio with onboard
speaker and headphone jack

~Executed on an DE0 FPGA

~Utilized slot-type IR sensors to
read coins and 7-segment
displays to display results

~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

~Schedule events

~Lead meetings

~Perform other administrative tasks